



NV-3-ASA

LED WATTAGE CHART

Drive Current	160L	192L	256L
800 milliamps	-	-	596w-614w
850 milliamps	420w	-	633w-648w
900 milliamps	445w	561w	671w-686w
975 milliamps	479w	608w	732w-743w
1050 milliamps	518w	623w-655w	790w-799w
1200 milliamps	592w	-	-

KEY FEATURES

- Ideal High Lumen Output for Area, Site, Roadway, and Large Parking Venues such as: Corporate Parks, Shopping Malls, Event & Sports Stadiums, Roadways, and Airports
- Sleek Robust Design of the NV-3 (Weight: 55 lbs., EPA: 0.73) Compliments the NV-1 and NV2, NV-3 with Sealed Glass Lens Also Available
- IES Distributions T2, T3, T4, and T5
- 160L, 192L, and 256L LED Configurations, 403 to 805 Watts
- 2700K, 3000K, 3500K, 4000K, 5000K CCT Multichip High Power 70 & 80 CRI LEDs
- IP66 Rated Against Dust & Water Ingress, IK10 Rated for Tamper/Vandalism/Impact Protection
- Mountings available have a 1.5G to 3G Vibration Rating: Architectural Sweep Arm, Direct Pole 6" and 11" Arm, Knuckle Mount, Wall Mount, Trunnion Mount, and Tennis Arm
- 20kA Surge Protection (120V - 480V), 0 - 10V Programmable, Dimming LED Drivers
- LED Drivers Ambient Temp. Min (°C) is -40°C and Ambient Temp. Max (°C) ranges from 50°C to 55°C
- Silicone Micro Optics providing 96% Clarity and Heat Resistant up to 150°C
- 9 Standard Finishes, Marine Grade Finish and Custom Finish Available

- Controls Agnostic, Compatible with Most Control Systems and Sensors
- Environmentally Friendly Product Which Reduces Energy Consumption, L70 > 100,000 hours
- Easy to Install Mounting
- Cost Competitive and Short Shipping Lead Times in Days & Weeks

BUY AMERICAN

To ensure the latest BAA/TAA Standards are being met, please select BAA in the options section, or contact the factory before placing an order and any NLS products requesting BAA, TAA or BABA



Project Name:

Type:

NV-3 ORDERING GUIDE

Cat#	Light Dist.	# of LEDs	Miliamps		CCT
NV-3 (NV-3)	Type 2 (T2)	160 (160L)	850 (85) ⁷	1050 (1) ⁷	Amber 585-600nM (AMBER) ^{6, 12, 14, 15}
	Type 3 (T3)		900 (90) ⁷	1200 (12)	2700K, 70 CRI (27K7) ⁵
	Type 4 (T4)		975 (97) ⁷		2700K, 80 CRI (27K8) ^{1, 5}
	Type 4 Forward Throw Wide (T4FTW)	192 (192L)	700 (7)	900 (90)	3000K, 70 CRI (30K7) ⁵
	Type 5 (T5)		800 (8)	975 (97)	3000K, 80 CRI (30K8) ^{1, 5}
	Type 5 Wide (T5W)		850 (85)	1050 (1)	3500K, 80 CRI (35K8) ¹
		256 (256L)	700 (7)	975 (97)	4000K, 70 CRI (40K7)
			800 (8)	1050 (1)	4000K, 80 CRI (40K8) ¹
			900 (90)		5000K, 70 CRI (50K7)
			Custom Drive Current (CUS-MA-***) ¹⁹		5000K, 80 CRI (50K8) ¹

Voltage	Mounting	Color	Controls Options	Options
120-277 (UNV)	Architectural Sweep Arm (ASA)	Bronze Textured (BRZ)	Photocell + Receptacle (PCR)	Bird Spikes (BS)
347-480 (HV)	Direct Pole 6" Arm Single, D180 (DPS6) ²	White Textured (WHT)	Nema 7-Pin Receptacle (PE7)	Marine Grade Finish (MGF)
	Direct Pole 11" Arm D90, T90, T120, Quad (DPS11) ²	Smooth White Gloss (SWT)	Receptacle + Shorting Cap (PER)	Optic Plate Painted to Match Fixture (OPP)
	Knuckle Mount (KM)	Silver Metallic (SVR)	FSP-211 w/Motion Sensor/Photocell (120/277VAC, 230-240VAC) 9'-20' Heights (FSP-20) ^{4, 16}	ASA Round Pole Adaptor 3"-4" Pole (RPA-ASA-4) ¹⁸
	Wall Mount (WM)	Black Textured (BLK)	21'-40' Heights (FSP211-40) ^{4, 16}	ASA Round Pole Adaptor 5"-6" Pole (RPA-ASA-5) ¹⁸
	Trunnion Mount (TM) ³	Smooth Black Gloss (SBK)	FSP-221 w/Motion Sensor/Photocell (100-347VAC, 208/230/480VAC) 9'-20' Heights (FSP221-20) ¹⁷	Round Pole Adapter 3"- 4" Pole (RPA4)
	Tennis Arm Mount (TA)	Graphite Textured (GPH)	21'-40' Heights (FSP221-40) ¹⁷	Round Pole Adapter 5"- 6" Pole (RPA5)
	Mast Arm Mount (MA)	Grey Textured (GRY)	FSP Remote (FSIR) ¹⁸	Rotated Optic Left (ROL)
		Green Textured (GRN)	Custom Controls Integration (CCI) ¹¹	Rotated Optic Right (ROR)
		Hunter Green Textured (HGN)	Button Type Photocell (PC) ⁴	Automotive House Side Shield (AHS)
		Custom (CS)		House Side Shield (HSS)
				Black Optic Frame (BOF) ⁶
				Glass Lens (GL) ^{7, 9, 14}
				HAL Lens (HAL) ^{10, 14}
				Buy American Act (BAA) ¹³
				Trade Agreement Act (TAA) ¹³
				Build America Buy American (BABA) ¹³

NOTES:

- Consult Factory for Lead Time. Consult Factory for 90 CRI Requests.
- For Round Pole Specify RPA4 or RPA5
- Standard finish is stainless steel. Can be painted to match fixture
- Universal Voltage 120-277
- 3000K or lower, with fixed mounting options only, must be selected to meet International Dark-Sky Association certification.
- Consult Factory for lead time
- Glass lens (GL) only available with these mA's
- Not available without Glass lens
- Glass Lens: Low iron glass, fully tempered per ANSI C1047 (QCH-2201-37)
- HAL Lens: Yellow Polycarbonate Lens – less than 2% Blue Light Content
- Please contact Factory for Custom Control Integration requests (nLight, NX, WaveLinx, Crestron, DMX/RDM, Synapse, Casambi, Dali II, or other control systems)
- Turtle Safe
- Consult factory for all BAA/TAA/BABA requests
- Contact factory
- Not Available above 700mA
- FSP-211, 120V/277V, 230-240VAC (single phase), 50/60Hz
- FSP-221, 100-347VAC (single phase) or 208/230/480VAC (phase-to-phase)
- Projects with sensors require Qty. 1 FSIR per project
- See estimated scaling chart for multiplier values to estimate lumen output. Please contact Factory to verify the estimated performance data.



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PRODUCT SPECIFICATIONS

ELECTRICAL

- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 0-10V dimming driver
- Driver power factor at maximum load is $\geq .95$, THD maximum load is 15%
- LED Drivers Ambient Temp. Min is -40°C and Ambient Temp. Max ranges from 50°C to 55°C and, in some cases, even higher. Consult the factory for revalidation by providing the fixture catalog string before quoting and specifying it.
- All internal wiring UL certified for 600 VAC and 105°C
- All drivers, controls, and sensors housed in enclosed IP66 compartment
- CRI 70, CRI 80
- Color temperatures: Amber, 2700K, 3000K, 3500K, 4000K, 5000K
- Surge Protection: 20kA supplied as standard.

CONSTRUCTION

- Die Cast Aluminum
- External cooling fins
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP66 seal for electronics compartment
- One-piece Optics Plate™ mounting silicone Micro Optics
- Two-piece silicone Micro Optic system ensures IP67 level seal around each PCB
- Grade 2 Clear Anodized Optics Plate™ standard

OPTICS

Silicone Micro Optics providing 96% Clarity and Heat Resistant up to 150°C. Silicone optics high thermal stability and light output provide higher powered LEDs with minimized lumen depreciation. UV stability with scratch resistance increases exterior application durability. Silicone optics do not yellow, crack or brittle over time.

CONTROL OPTIONS

- **FSP-211 w/Motion Sensor/Photocell (120/277VAC, 230-240VAC)**
(FSP-X) - Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
- **FSP-221 w/Motion Sensor/Photocell (100-347VAC, 208/230/480VAC)**
(FSP-HV-X) - Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
 - All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
 - FSP-8 mounting heights 8 feet and below
 - FSP-20 mounting heights 9-20 feet
 - FSP-40 mounting heights 21-40 feet
 - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field. Programmable remote must be purchased separately.
 - FSIR-100 commissioning remote is required to change sensor settings. Please contact factory for ordering.
- Controls Agnostic: Please contact factory for your preferred controls option. (nLight, NX, WaveLinx, Crestron, DMX/RDM, Synapse, Casambi, Dali II, or other control systems)
- NEMA 7-PIN RECEPTACLE (PE7) - An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.
- PHOTOCELL + RECEPTACLE (PCR) - 7-Pin Receptacle and Electronic Twist Lock Photocell for dusk to dawn operation.
- RECEPTACLE + SHORTING CAP (PER) - 7-Pin Receptacle and Shorting Cap.
- GLASS LENS (GL) - Low Iron Glass, fully tempered.
- HAL LENS (HAL) - High Performance Yellow Polycarbonate Lens – less than 2% Blue Light Content

OPTIONS

- BIRD SPIKES (BS) - Offer an effective and humane deterrent for larger bird species and provide a cost-effective long-term solution to nuisance bird infestations and to protect your property.
- MARINE GRADE FINISH (MGF) - A multi-step process creating a protective finishing coat against harsh environments. Chemically washed in a 5-stage cleaning system. Pre-baked, Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer. Oven Baked. Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.
- OPTIC PLATE PAINTED TO MATCH FIXTURE (OPP) - Optic plate is clear anodized as standard. The optic plate can be powder coated to match the finish of the fixture.
- ROUND POLE ADAPTER (RPA) - When using round poles, specify Round Pole Adapter (RPA). Specify RPA4 when installing on 3"-4" round poles, and RPA5 when installing on 5"-6" round poles.
- ROTATED OPTICS (ROL) (ROR) - Rotated optics are designed for perimeter lighting for auto dealerships.
- Glass Lens (GL) - Low Iron Glass, fully tempered.
- HAL LENS (HAL) - High Performance Yellow Polycarbonate Lens – less than 2% Blue Light Content
- SHIELDS (HSS, AHS) - House Side Shield (HSS) is designed for full property line cutoff. Automotive House Side Shield (AHS) is a single-sided shield allowing partial cutoff on either side or front of luminaire.
- BLACK OPTIC FRAME (BOF) - Optional black optic frame (includes black hardware). Standard is white.

FINISH

- 3-5 mils electrostatic powder coat.
- NLS Lighting standard high-quality finishes prevent corrosion, and protects against extreme environmental conditions.

WARRANTY

Five-year limited warranty for drivers and LEDs.

LISTINGS

- UL Listed in compliance with UL 1598, the Standard for Safety of Luminaires, including the applicable wet location requirements
- Compliant with UL 8750 LED driver design and test safety standards
- CSA C22.2 No. 250.0
- DesignLights Consortium® (DLC) Pending
- DesignLights Consortium Premium® (DLCP) Pending
- IP66 Rated Fixture / IP67 Rated Optics
- IDA Dark Sky Approved
- 1.5G Vibration Rated - Knuckle Mount, Direct Pole Mount 11"
- 3G Vibration Rated - Trunnion Mount

BUY AMERICAN OPTION

While all of the NLS Lighting products listed in this document qualify for the Buy America(n) Act of 1933, we reserve the right to change our listings without notice.

The information provided above is for general informational purposes only. We encourage you to consult legal professionals for advice particular to your projects concerning BAA, TAA, BABA or Buy America.

Additional NLS Products that meet BAA, TAA standards can be found at the following link:

[https://nslighting.com/wp-content/uploads/cs/NLS_BuyAmerica\(n\).pdf](https://nslighting.com/wp-content/uploads/cs/NLS_BuyAmerica(n).pdf)



The information and specifications on this document are subject to change without any notification. All values are design, nominal, or typical or prorated values when measured under internal and external laboratory conditions.

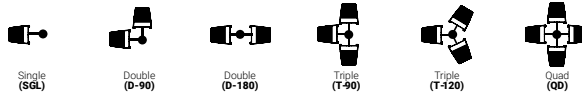


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PRODUCT SPECIFICATIONS

MOUNTING CONFIGURATION



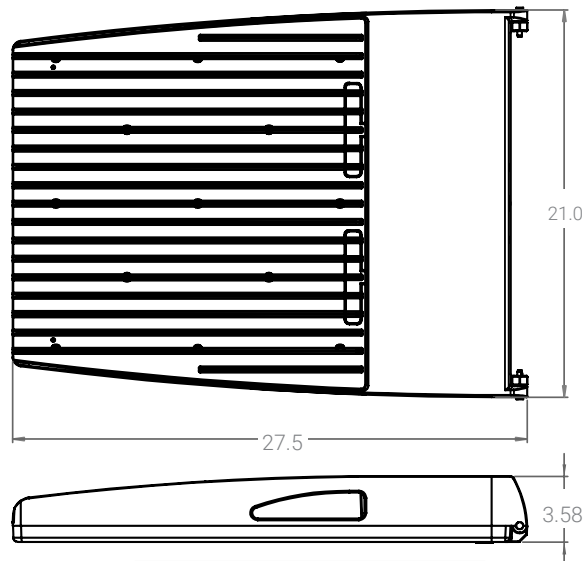
NV-3 EPA DATA

EPA	SGL	D90	D180	T90	T120	QD
FIXTURE ONLY	.73	1.33	1.46	2.06	1.81	2.06
DPS6 ARM	0.18	-	0.37	-	-	-
DPS11 ARM	0.34	0.67	0.67	0.67	0.58	0.67
TOTAL EPA WITH DPS6 (ft^2)	0.91	-	1.83	-	-	-
TOTAL EPA WITH DPS11 (ft^2)	1.07	2.00	2.13	2.73	2.39	2.73

DP(X) ARM LENGTH

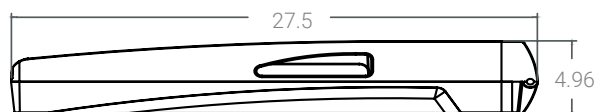
ARM	SGL	D90	D180	T90	T120	QD
DPS6	6.25"	-	6.25"	-	-	-
DPS11	-	11.25"	-	11.25"	11.25"	11.25"

STANDARD VERSION



Weight: 55 lbs

GLASS LENS VERSION



Weight: 58 lbs

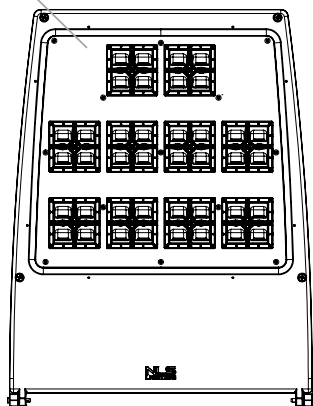
PRODUCT SPECIFICATIONS

OPTICAL CONFIGURATIONS

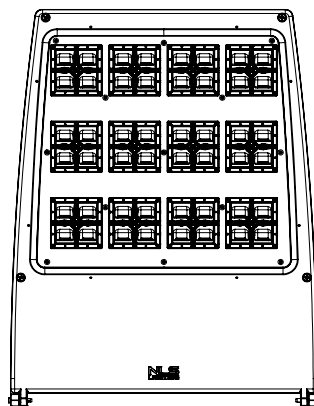
Rotate-able Optics (ROR) Rotated Right, (ROL) Rotated Left options available. Optics field and factory rotate-able.

Note: Risk for water ingress if allowing rotate-able optics procedure done in the field.

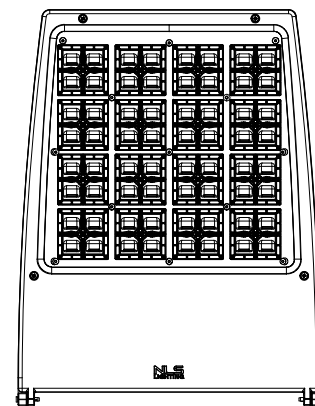
(OPP)



NV-3 / 160L



NV-3 / 192L



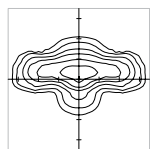
NV-3 / 256L

OPTIC PLATE PAINTED TO MATCH FIXTURE FINISH (OPP)– Optic Plate standard clear anodized, Grade 2. When (OPP) specified, Optic Plate finish will match fixture finish.

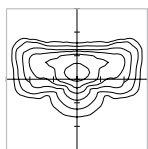
OPTICS

Silicone optics high photothermal stability and light output provides higher powered LEDs with minimized lumen depreciation LED life. UV and thermal stability with scratch resistance increases exterior application durability.

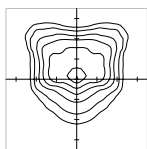
IES Types



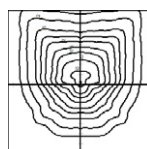
TYPE II (T2)



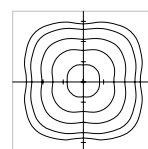
TYPE III (T3)



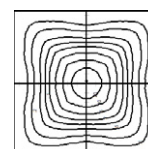
TYPE IV (T4)



TYPE IV
FORWARD
(T4FTW)



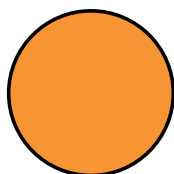
TYPE V (T5)



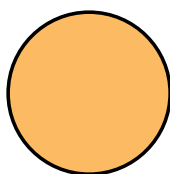
TYPE V WIDE
(T5W)

PRODUCT SPECIFICATIONS

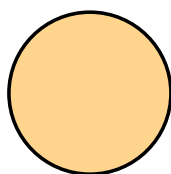
LED KELVIN RANGE



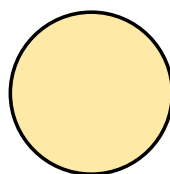
AMBER
585-600 nm



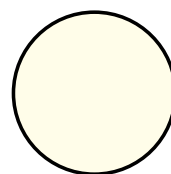
2700K 70 CRI



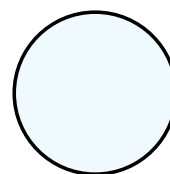
3000K 70 CRI



3500K 80 CRI



4000K 70 CRI



5000K 70 CRI

Color	Dominant or Peak Wavelength Range (nm)	
	Minimum	Maximum
Amber	585	600

NV-3 LUMEN MAINTENANCE

Lumen Maintenance Data							
Ambient Temperature	Drive Current	L90 Hours*	L70 Hours**	30,000 Hours*	50,000 Hours*	60,00 Hours*	100,000 Hours**
25°C	Up to 700mA	58,000	173,000	95.7%	91.6%	89.6%	82.1%
	1050mA	48,000	143,000	94.3%	89.5%	87.2%	78.5%
*Reported extrapolations per IESNA TM-21				**Projected extrapolations per IESNA TM-21			
Lumen Maintenance Data (For Static Colors, Please Contact Factory)							

MULTIPLIERS FOR 70/80/90 CRI (Scaling Factor from 5000K 70 CRI)			
CCT	70 CRI	80 CRI	90 CRI
2700K	0.840	0.737	0.609
3000K	0.975	0.776	0.640
3500K	0.890	0.800	0.659
4000K	1.000	0.815	0.679
5000K	1.000	0.830	0.710

PRODUCT SPECIFICATIONS

LUMEN CHARTS

LUMEN CHART STANDARD SILICONE MICRO OPTICS									
PART NUMBER	T2	LPW	T3	LPW	T4	LPW	T5	LPW	WATTAGE
NV-3-160L-85-27K7	43725	104	44052	105	41806	100	44911	107	420
NV-3-160L-85-27K8	40946	97	41252	98	39149	93	42057	100	420
NV-3-160L-85-30K7	47275	113	47629	113	45201	108	48558	116	420
NV-3-160L-85-30K8	43903	105	44232	105	41977	100	45095	107	420
NV-3-160L-85-35K8	43903	105	44232	105	41977	100	45095	107	420
NV-3-160L-85-40K7	51081	122	51463	123	48839	116	52467	125	420
NV-3-160L-85-40K8	47281	113	47635	113	45206	108	48564	116	420
NV-3-160L-85-50K7	51081	122	51463	123	48839	116	52467	125	420
NV-3-160L-85-50K8	47281	113	47635	113	45206	108	48564	116	420
NV-3-160L-90-27K7	46297	104	46643	105	44265	99	47553	107	445
NV-3-160L-90-27K8	43355	97	43679	98	41452	93	44531	100	445
NV-3-160L-90-30K7	50056	112	50431	113	47859	108	51414	116	445
NV-3-160L-90-30K8	46486	104	46834	105	44446	100	47747	107	445
NV-3-160L-90-35K8	46486	104	46834	105	44446	100	47747	107	445
NV-3-160L-90-40K7	54086	122	54490	122	51712	116	55553	125	445
NV-3-160L-90-40K8	50063	113	50437	113	47865	108	51421	116	445
NV-3-160L-90-50K7	54086	122	54490	122	51712	116	55553	125	445
NV-3-160L-90-50K8	50063	113	50437	113	47865	108	51421	116	445
NV-3-160L-97-27K7	50155	105	50530	105	47954	100	51516	108	479
NV-3-160L-97-27K8	46968	98	47319	99	44906	94	48242	101	479
NV-3-160L-97-30K7	54228	113	54633	114	51848	108	55699	116	479
NV-3-160L-97-30K8	50360	105	50737	106	48150	101	51726	108	479
NV-3-160L-97-35K8	50360	105	50737	106	48150	101	51726	108	479
NV-3-160L-97-40K7	58593	122	59031	123	56021	117	60182	126	479
NV-3-160L-97-40K8	54235	113	54640	114	51854	108	55705	116	479
NV-3-160L-97-50K7	58593	122	59031	123	56021	117	60182	126	479
NV-3-160L-97-50K8	54235	113	54640	114	51854	108	55705	116	479
NV-3-160L-1-27K7	54013	104	54417	105	51643	100	55479	107	518
NV-3-160L-1-27K8	50580	98	50959	98	48361	93	51953	100	518
NV-3-160L-1-30K7	58399	113	58836	114	55836	108	59983	116	518
NV-3-160L-1-30K8	54234	105	54640	105	51854	100	55705	108	518
NV-3-160L-1-35K8	54234	105	54640	105	51854	100	55705	108	518
NV-3-160L-1-40K7	63100	122	63572	123	60331	116	64812	125	518
NV-3-160L-1-40K8	58406	113	58843	114	55843	108	59991	116	518
NV-3-160L-1-50K7	63100	122	63572	123	60331	116	64812	125	518
NV-3-160L-1-50K8	58406	113	58843	114	55843	108	59991	116	518
NV-3-160L-12-27K7	61730	104	62191	105	59020	100	63404	107	592
NV-3-160L-12-27K8	57807	98	58239	98	55269	93	59375	100	592
NV-3-160L-12-30K7	66742	113	67241	114	63813	108	68552	116	592
NV-3-160L-12-30K8	61982	105	62445	105	59262	100	63663	108	592
NV-3-160L-12-35K8	61982	105	62445	105	59262	100	63663	108	592
NV-3-160L-12-40K7	72114	122	72654	123	68949	116	74071	125	592
NV-3-160L-12-40K8	66750	113	67250	114	63820	108	68561	116	592
NV-3-160L-12-50K7	72114	122	72654	123	68949	116	74071	125	592
NV-3-160L-12-50K8	66750	113	67250	114	63820	108	68561	116	592

PRODUCT SPECIFICATIONS

LUMEN CHART STANDARD SILICONE MICRO OPTICS									
PART NUMBER	T2	LPW	T3	LPW	T4	LPW	T5	LPW	WATTAGE
NV-3-192L-9-27K7	55557	99	55972	100	53118	95	56125	100	561
NV-3-192L-9-27K8	52026	93	52415	93	49742	89	52558	94	561
NV-3-192L-9-30K7	60068	107	60517	108	57431	102	60682	108	561
NV-3-192L-9-30K8	55784	99	56201	100	53335	95	56354	100	561
NV-3-192L-9-35K8	55784	99	56201	100	53335	95	56354	100	561
NV-3-192L-9-40K7	64903	116	65388	117	62055	111	65567	117	561
NV-3-192L-9-40K8	60075	107	60524	108	57439	102	60690	108	561
NV-3-192L-9-50K7	64903	116	65388	117	62055	111	65567	117	561
NV-3-192L-9-50K8	60075	107	60524	108	57439	102	60690	108	561
NV-3-192L-97-27K7	60186	99	60636	100	57545	95	60802	100	608
NV-3-192L-97-27K8	56361	93	56782	93	53888	89	56938	94	608
NV-3-192L-97-30K7	65073	107	65560	108	62217	102	65739	108	608
NV-3-192L-97-30K8	60432	99	60884	100	57780	95	61050	100	608
NV-3-192L-97-35K8	60432	99	60884	100	57780	95	61050	100	608
NV-3-192L-97-40K7	70311	116	70837	117	67226	111	71031	117	608
NV-3-192L-97-40K8	65081	107	65568	108	62225	102	65747	108	608
NV-3-192L-97-50K7	70311	116	70837	117	67226	111	71031	117	608
NV-3-192L-97-50K8	65081	107	65568	108	62225	102	65747	108	608
NV-3-192L-1-27K7	64816	104	65301	105	61971	99	65479	105	623
NV-3-192L-1-27K8	60697	97	61151	98	58033	93	61318	98	623
NV-3-192L-1-30K7	70079	112	70603	113	67003	108	70796	114	623
NV-3-192L-1-30K8	65081	104	65568	105	62224	100	65747	106	623
NV-3-192L-1-35K8	65081	104	65568	105	62224	100	65747	106	623
NV-3-192L-1-40K7	75720	122	76286	122	72397	116	76495	123	623
NV-3-192L-1-40K8	70088	113	70612	113	67012	108	70805	114	623
NV-3-192L-1-50K7	75720	122	76286	122	72397	116	76495	123	623
NV-3-192L-1-50K8	70088	113	70612	113	67012	108	70805	114	623

PRODUCT SPECIFICATIONS

LUMEN CHART STANDARD SILICONE MICRO OPTICS									
PART NUMBER	T2	LPW	T3	LPW	T4	LPW	T5	LPW	WATTAGE
NV-3-256L-8-27K7	65845	110	66337	111	62955	105	67631	113	599
NV-3-256L-8-27K8	61660	103	62121	104	58954	98	63333	106	599
NV-3-256L-8-30K7	71191	119	71724	120	68067	114	73123	122	599
NV-3-256L-8-30K8	66114	110	66609	111	63212	106	67908	113	599
NV-3-256L-8-35K8	66114	110	66609	111	63212	106	67908	113	599
NV-3-256L-8-40K7	76922	128	77497	129	73546	123	79009	132	599
NV-3-256L-8-40K8	71200	119	71732	120	68075	114	73132	122	599
NV-3-256L-8-50K7	76922	128	77497	129	73546	123	79009	132	599
NV-3-256L-8-50K8	71200	119	71732	120	68075	114	73132	122	599
NV-3-256L-85-27K7	69960	110	70483	110	66890	105	71858	113	638
NV-3-256L-85-27K8	65514	103	66004	103	62639	98	67291	105	638
NV-3-256L-85-30K7	75641	119	76206	119	72321	113	77693	122	638
NV-3-256L-85-30K8	70246	110	70771	111	67163	105	72152	113	638
NV-3-256L-85-35K8	70246	110	70771	111	67163	105	72152	113	638
NV-3-256L-85-40K7	81730	128	82341	129	78143	122	83947	132	638
NV-3-256L-85-40K8	75651	119	76216	119	72330	113	77703	122	638
NV-3-256L-85-50K7	81730	128	82341	129	78143	122	83947	132	638
NV-3-256L-85-50K8	75651	119	76216	119	72330	113	77703	122	638
NV-3-256L-9-27K7	74075	110	74629	111	70824	105	76085	113	675
NV-3-256L-9-27K8	69367	103	69886	104	66323	98	71250	106	675
NV-3-256L-9-30K7	80090	119	80689	120	76575	113	82263	122	675
NV-3-256L-9-30K8	74378	110	74934	111	71114	105	76396	113	675
NV-3-256L-9-35K8	74378	110	74934	111	71114	105	76396	113	675
NV-3-256L-9-40K7	86537	128	87184	129	82739	123	88885	132	675
NV-3-256L-9-40K8	80100	119	80699	120	76585	113	82273	122	675
NV-3-256L-9-50K7	86537	128	87184	129	82739	123	88885	132	675
NV-3-256L-9-50K8	80100	119	80699	120	76585	113	82273	122	675
NV-3-256L-97-27K7	80248	110	80848	110	76726	105	82425	113	732
NV-3-256L-97-27K8	75148	103	75710	103	71850	98	77187	105	732
NV-3-256L-97-30K7	86764	119	87413	119	82956	113	89118	122	732
NV-3-256L-97-30K8	80576	110	81179	111	77039	105	82762	113	732
NV-3-256L-97-35K8	80576	110	81179	111	77039	105	82762	113	732
NV-3-256L-97-40K7	93749	128	94450	129	89634	122	96292	132	732
NV-3-256L-97-40K8	86776	119	87424	119	82967	113	89129	122	732
NV-3-256L-97-50K7	93749	128	94450	129	89634	122	96292	132	732
NV-3-256L-97-50K8	86776	119	87424	119	82967	113	89129	122	732
NV-3-256L-1-27K7	86421	110	87068	110	82628	105	88766	113	788
NV-3-256L-1-27K8	80929	103	81535	103	77377	98	83125	105	788
NV-3-256L-1-30K7	93438	119	94137	119	89338	113	95973	122	788
NV-3-256L-1-30K8	86774	110	87423	111	82966	105	89128	113	788
NV-3-256L-1-35K8	86774	110	87423	111	82966	105	89128	113	788
NV-3-256L-1-40K7	100960	128	101715	129	96529	122	103699	132	788
NV-3-256L-1-40K8	93450	119	94149	119	89349	113	95985	122	788
NV-3-256L-1-50K7	100960	128	101715	129	96529	122	103699	132	788
NV-3-256L-1-50K8	93450	119	94149	119	89349	113	95985	122	788

PRODUCT SPECIFICATIONS

LUMEN CHART PERFORMANCE T4FTW SILICONE MICRO OPTICS			
PART NUMBER	T4FTW	LPW	WATTAGE
NV-3-160L-85-27K7	39547	94	420
NV-3-160L-85-27K8	37034	88	420
NV-3-160L-85-30K7	42758	102	420
NV-3-160L-85-30K8	39708	95	420
NV-3-160L-85-35K8	39708	95	420
NV-3-160L-85-40K7	46200	110	420
NV-3-160L-85-40K8	42763	102	420
NV-3-160L-85-50K7	46200	110	420
NV-3-160L-85-50K8	42763	102	420
NV-3-160L-90-27K7	41901	94	445
NV-3-160L-90-27K8	39238	88	445
NV-3-160L-90-30K7	45303	102	445
NV-3-160L-90-30K8	42072	95	445
NV-3-160L-90-35K8	42072	95	445
NV-3-160L-90-40K7	48950	110	445
NV-3-160L-90-40K8	45309	102	445
NV-3-160L-90-50K7	48950	110	445
NV-3-160L-90-50K8	45309	102	445
NV-3-160L-97-27K7	45103	94	479
NV-3-160L-97-27K8	42237	88	479
NV-3-160L-97-30K7	48765	102	479
NV-3-160L-97-30K8	45287	95	479
NV-3-160L-97-35K8	45287	95	479
NV-3-160L-97-40K7	52690	110	479
NV-3-160L-97-40K8	48771	102	479
NV-3-160L-97-50K7	52690	110	479
NV-3-160L-97-50K8	48771	102	479
NV-3-160L-1-27K7	48570	94	518
NV-3-160L-1-27K8	45483	88	518
NV-3-160L-1-30K7	52514	101	518
NV-3-160L-1-30K8	48769	94	518
NV-3-160L-1-35K8	48769	94	518
NV-3-160L-1-40K7	56741	110	518
NV-3-160L-1-40K8	52520	101	518
NV-3-160L-1-50K7	56741	110	518
NV-3-160L-1-50K8	52520	101	518
NV-3-160L-12-27K7	49662	84	592
NV-3-160L-12-27K8	46506	79	592
NV-3-160L-12-30K7	53694	91	592
NV-3-160L-12-30K8	49864	84	592
NV-3-160L-12-35K8	49864	84	592
NV-3-160L-12-40K7	58016	98	592
NV-3-160L-12-40K8	53701	91	592
NV-3-160L-12-50K7	58016	98	592
NV-3-160L-12-50K8	53701	91	592

LUMEN CHART PERFORMANCE T5W SILICONE MICRO OPTICS			
PART NUMBER	T5W	LPW	WATTAGE
NV-3-160L-85-27K7	45300	108	420
NV-3-160L-85-27K8	42421	101	420
NV-3-160L-85-30K7	48977	117	420
NV-3-160L-85-30K8	45484	108	420
NV-3-160L-85-35K8	45484	108	420
NV-3-160L-85-40K7	52920	126	420
NV-3-160L-85-40K8	48984	117	420
NV-3-160L-85-50K7	52920	126	420
NV-3-160L-85-50K8	48984	117	420
NV-3-160L-90-27K7	47996	108	445
NV-3-160L-90-27K8	44946	101	445
NV-3-160L-90-30K7	51893	117	445
NV-3-160L-90-30K8	48192	108	445
NV-3-160L-90-35K8	48192	108	445
NV-3-160L-90-40K7	56070	126	445
NV-3-160L-90-40K8	51899	117	445
NV-3-160L-90-50K7	56070	126	445
NV-3-160L-90-50K8	51899	117	445
NV-3-160L-97-27K7	51663	108	479
NV-3-160L-97-27K8	48380	101	479
NV-3-160L-97-30K7	55858	117	479
NV-3-160L-97-30K8	51874	108	479
NV-3-160L-97-35K8	51874	108	479
NV-3-160L-97-40K7	60354	126	479
NV-3-160L-97-40K8	55865	117	479
NV-3-160L-97-50K7	60354	126	479
NV-3-160L-97-50K8	55865	117	479
NV-3-160L-1-27K7	56035	108	521
NV-3-160L-1-27K8	52474	101	521
NV-3-160L-1-30K7	60584	116	521
NV-3-160L-1-30K8	56263	108	521
NV-3-160L-1-35K8	56263	108	521
NV-3-160L-1-40K7	65461	126	521
NV-3-160L-1-40K8	60592	116	521
NV-3-160L-1-50K7	65461	126	521
NV-3-160L-1-50K8	60592	116	521
NV-3-160L-12-27K7	57428	97	593
NV-3-160L-12-27K8	53778	91	593
NV-3-160L-12-30K7	62091	105	593
NV-3-160L-12-30K8	57663	97	593
NV-3-160L-12-35K8	57663	97	593
NV-3-160L-12-40K7	67089	113	593
NV-3-160L-12-40K8	62099	105	593
NV-3-160L-12-50K7	67089	113	593
NV-3-160L-12-50K8	62099	105	593

PRODUCT SPECIFICATIONS

LUMEN CHART PERFORMANCE T4FTW SILICONE MICRO OPTICS			
PART NUMBER	T4FTW	LPW	WATTAGE
NV-3-192L-7-27K7	38011	92	415
NV-3-192L-7-27K8	35595	86	415
NV-3-192L-7-30K7	41097	99	415
NV-3-192L-7-30K8	38166	92	415
NV-3-192L-7-35K8	38166	92	415
NV-3-192L-7-40K7	44405	107	415
NV-3-192L-7-40K8	41102	99	415
NV-3-192L-7-50K7	44405	107	415
NV-3-192L-7-50K8	41102	99	415
NV-3-192L-8-27K7	43506	92	475
NV-3-192L-8-27K8	40741	86	475
NV-3-192L-8-30K7	47039	99	475
NV-3-192L-8-30K8	43684	92	475
NV-3-192L-8-35K8	43684	92	475
NV-3-192L-8-40K7	50825	107	475
NV-3-192L-8-40K8	47044	99	475
NV-3-192L-8-50K7	50825	107	475
NV-3-192L-8-50K8	47044	99	475
NV-3-192L-85-27K7	47457	94	504
NV-3-192L-85-27K8	44441	88	504
NV-3-192L-85-30K7	51310	102	504
NV-3-192L-85-30K8	47651	95	504
NV-3-192L-85-35K8	47651	95	504
NV-3-192L-85-40K7	55440	110	504
NV-3-192L-85-40K8	51316	102	504
NV-3-192L-85-50K7	55440	110	504
NV-3-192L-85-50K8	51316	102	504
NV-3-192L-9-27K7	52824	94	561
NV-3-192L-9-27K8	49467	88	561
NV-3-192L-9-30K7	57113	102	561
NV-3-192L-9-30K8	53040	95	561
NV-3-192L-9-35K8	53040	95	561
NV-3-192L-9-40K7	61710	110	561
NV-3-192L-9-40K8	57120	102	561
NV-3-192L-9-50K7	61710	110	561
NV-3-192L-9-50K8	57120	102	561
NV-3-192L-97-27K7	57249	94	608
NV-3-192L-97-27K8	53611	88	608
NV-3-192L-97-30K7	61897	102	608
NV-3-192L-97-30K8	57482	95	608
NV-3-192L-97-35K8	57482	95	608
NV-3-192L-97-40K7	66880	110	608
NV-3-192L-97-40K8	61905	102	608
NV-3-192L-97-50K7	66880	110	608
NV-3-192L-97-50K8	61905	102	608
NV-3-192L-1-27K7	58514	94	621
NV-3-192L-1-27K8	54795	88	621
NV-3-192L-1-30K7	63265	102	621
NV-3-192L-1-30K8	58753	95	621
NV-3-192L-1-35K8	58753	95	621
NV-3-192L-1-40K7	68358	110	621
NV-3-192L-1-40K8	63273	102	621
NV-3-192L-1-50K7	68358	110	621
NV-3-192L-1-50K8	63273	102	621

LUMEN CHART PERFORMANCE T5W SILICONE MICRO OPTICS			
PART NUMBER	T5W	LPW	WATTAGE
NV-3-192L-7-27K7	47957	116	415
NV-3-192L-7-27K8	44909	108	415
NV-3-192L-7-30K7	51851	125	415
NV-3-192L-7-30K8	48153	116	415
NV-3-192L-7-35K8	48153	116	415
NV-3-192L-7-40K7	56025	135	415
NV-3-192L-7-40K8	51858	125	415
NV-3-192L-7-50K7	56025	135	415
NV-3-192L-7-50K8	51858	125	415
NV-3-192L-8-27K7	48792	103	475
NV-3-192L-8-27K8	45691	96	475
NV-3-192L-8-30K7	52754	111	475
NV-3-192L-8-30K8	48992	103	475
NV-3-192L-8-35K8	48992	103	475
NV-3-192L-8-40K7	57000	120	475
NV-3-192L-8-40K8	52760	111	475
NV-3-192L-8-50K7	57000	120	475
NV-3-192L-8-50K8	52760	111	475
NV-3-192L-85-27K7	53065	105	504
NV-3-192L-85-27K8	49693	99	504
NV-3-192L-85-30K7	57374	114	504
NV-3-192L-85-30K8	53282	106	504
NV-3-192L-85-35K8	53282	106	504
NV-3-192L-85-40K7	61992	123	504
NV-3-192L-85-40K8	57381	114	504
NV-3-192L-85-50K7	61992	123	504
NV-3-192L-85-50K8	57381	114	504
NV-3-192L-9-27K7	59067	105	561
NV-3-192L-9-27K8	55313	99	561
NV-3-192L-9-30K7	63862	114	561
NV-3-192L-9-30K8	59307	106	561
NV-3-192L-9-35K8	59307	106	561
NV-3-192L-9-40K7	69003	123	561
NV-3-192L-9-40K8	63870	114	561
NV-3-192L-9-50K7	69003	123	561
NV-3-192L-9-50K8	63870	114	561
NV-3-192L-97-27K7	64015	105	608
NV-3-192L-97-27K8	59947	99	608
NV-3-192L-97-30K7	69213	114	608
NV-3-192L-97-30K8	64277	106	608
NV-3-192L-97-35K8	64277	106	608
NV-3-192L-97-40K7	74784	123	608
NV-3-192L-97-40K8	69221	114	608
NV-3-192L-97-50K7	74784	123	608
NV-3-192L-97-50K8	69221	114	608
NV-3-192L-1-27K7	65480	105	623
NV-3-192L-1-27K8	61319	98	623
NV-3-192L-1-30K7	70796	114	623
NV-3-192L-1-30K8	65747	106	623
NV-3-192L-1-35K8	65747	106	623
NV-3-192L-1-40K7	76495	123	623
NV-3-192L-1-40K8	70805	114	623
NV-3-192L-1-50K7	76495	123	623
NV-3-192L-1-50K8	70805	114	623

PRODUCT SPECIFICATIONS

LUMEN CHART PERFORMANCE T4FTW SILICONE MICRO OPTICS			
PART NUMBER	T4FTW	LPW	WATTAGE
NV-3-256L-35-27K7	30310	116	262
NV-3-256L-35-27K8	28384	108	262
NV-3-256L-35-30K7	32771	125	262
NV-3-256L-35-30K8	30434	116	262
NV-3-256L-35-35K8	30434	116	262
NV-3-256L-35-40K7	35409	135	262
NV-3-256L-35-40K8	32775	125	262
NV-3-256L-35-50K7	35409	135	262
NV-3-256L-35-50K8	32775	125	262
NV-3-256L-53-27K7	40440	102	397
NV-3-256L-53-27K8	37870	95	397
NV-3-256L-53-30K7	43723	110	397
NV-3-256L-53-30K8	40605	102	397
NV-3-256L-53-35K8	40605	102	397
NV-3-256L-53-40K7	47243	119	397
NV-3-256L-53-40K8	43729	110	397
NV-3-256L-53-50K7	47243	119	397
NV-3-256L-53-50K8	43729	110	397
NV-3-256L-7-27K7	45751	87	524
NV-3-256L-7-27K8	42843	82	524
NV-3-256L-7-30K7	49466	94	524
NV-3-256L-7-30K8	45938	88	524
NV-3-256L-7-35K8	45938	88	524
NV-3-256L-7-40K7	53448	102	524
NV-3-256L-7-40K8	49472	94	524
NV-3-256L-7-50K7	53448	102	524
NV-3-256L-7-50K8	49472	94	524
NV-3-256L-8-27K7	50249	84	599
NV-3-256L-8-27K8	47056	79	599
NV-3-256L-8-30K7	54329	91	599
NV-3-256L-8-30K8	50454	84	599
NV-3-256L-8-35K8	50454	84	599
NV-3-256L-8-40K7	58702	98	599
NV-3-256L-8-40K8	54336	91	599
NV-3-256L-8-50K7	58702	98	599
NV-3-256L-8-50K8	54336	91	599
NV-3-256L-9-27K7	58722	86	686
NV-3-256L-9-27K8	54990	80	686
NV-3-256L-9-30K7	63489	93	686
NV-3-256L-9-30K8	58961	86	686
NV-3-256L-9-35K8	58961	86	686
NV-3-256L-9-40K7	68600	100	686
NV-3-256L-9-40K8	63497	93	686
NV-3-256L-9-50K7	68600	100	686
NV-3-256L-9-50K8	63497	93	686

LUMEN CHART PERFORMANCE T5W SILICONE MICRO OPTICS			
PART NUMBER	T5W	LPW	WATTAGE
NV-3-256L-35-27K7	32928	122	269
NV-3-256L-35-27K8	30835	115	269
NV-3-256L-35-30K7	35601	132	269
NV-3-256L-35-30K8	33062	123	269
NV-3-256L-35-35K8	33062	123	269
NV-3-256L-35-40K7	38467	143	269
NV-3-256L-35-40K8	35606	132	269
NV-3-256L-35-50K7	38467	143	269
NV-3-256L-35-50K8	35606	132	269
NV-3-256L-53-27K7	50882	125	407
NV-3-256L-53-27K8	47648	117	407
NV-3-256L-53-30K7	55014	135	407
NV-3-256L-53-30K8	51090	126	407
NV-3-256L-53-35K8	51090	126	407
NV-3-256L-53-40K7	59442	146	407
NV-3-256L-53-40K8	55020	135	407
NV-3-256L-53-50K7	59442	146	407
NV-3-256L-53-50K8	55020	135	407
NV-3-256L-7-27K7	62975	117	537
NV-3-256L-7-27K8	58973	110	537
NV-3-256L-7-30K7	68088	127	537
NV-3-256L-7-30K8	63232	118	537
NV-3-256L-7-35K8	63232	118	537
NV-3-256L-7-40K7	73569	137	537
NV-3-256L-7-40K8	68097	127	537
NV-3-256L-7-50K7	73569	137	537
NV-3-256L-7-50K8	68097	127	537
NV-3-256L-8-27K7	63942	104	614
NV-3-256L-8-27K8	59878	98	614
NV-3-256L-8-30K7	69134	113	614
NV-3-256L-8-30K8	64203	105	614
NV-3-256L-8-35K8	64203	105	614
NV-3-256L-8-40K7	74699	122	614
NV-3-256L-8-40K8	69143	113	614
NV-3-256L-8-50K7	74699	122	614
NV-3-256L-8-50K8	69143	113	614
NV-3-256L-9-27K7	73402	107	686
NV-3-256L-9-27K8	68737	100	686
NV-3-256L-9-30K7	79362	116	686
NV-3-256L-9-30K8	73702	107	686
NV-3-256L-9-35K8	73702	107	686
NV-3-256L-9-40K7	85750	125	686
NV-3-256L-9-40K8	79372	116	686
NV-3-256L-9-50K7	85750	125	686
NV-3-256L-9-50K8	79372	116	686

PRODUCT SPECIFICATIONS

LUMEN CHART PERFORMANCE T4FTW SILICONE MICRO OPTICS			
PART NUMBER	T4FTW	LPW	WATTAGE
NV-3-256L-97-27K7	63601	86	743
NV-3-256L-97-27K8	59559	80	743
NV-3-256L-97-30K7	68765	93	743
NV-3-256L-97-30K8	63861	86	743
NV-3-256L-97-35K8	63861	86	743
NV-3-256L-97-40K7	74300	100	743
NV-3-256L-97-40K8	68773	93	743
NV-3-256L-97-50K7	74300	100	743
NV-3-256L-97-50K8	68773	93	743
NV-3-256L-1-27K7	67169	85	788
NV-3-256L-1-27K8	62900	80	788
NV-3-256L-1-30K7	72622	92	788
NV-3-256L-1-30K8	67443	86	788
NV-3-256L-1-35K8	67443	86	788
NV-3-256L-1-40K7	78468	100	788
NV-3-256L-1-40K8	72631	92	788
NV-3-256L-1-50K7	78468	100	788
NV-3-256L-1-50K8	72631	92	788

LUMEN CHART PERFORMANCE T5W SILICONE MICRO OPTICS			
PART NUMBER	T5W	LPW	WATTAGE
NV-3-256L-97-27K7	79501	107	743
NV-3-256L-97-27K8	74449	100	743
NV-3-256L-97-30K7	85956	116	743
NV-3-256L-97-30K8	79826	107	743
NV-3-256L-97-35K8	79826	107	743
NV-3-256L-97-40K7	92875	125	743
NV-3-256L-97-40K8	85967	116	743
NV-3-256L-97-50K7	92875	125	743
NV-3-256L-97-50K8	85967	116	743
NV-3-256L-1-27K7	85186	107	799
NV-3-256L-1-27K8	79772	100	799
NV-3-256L-1-30K7	92102	115	799
NV-3-256L-1-30K8	85533	107	799
NV-3-256L-1-35K8	85533	107	799
NV-3-256L-1-40K7	99516	125	799
NV-3-256L-1-40K8	92114	115	799
NV-3-256L-1-50K7	99516	125	799
NV-3-256L-1-50K8	92114	115	799

PRODUCT SPECIFICATIONS

HSS LUMEN CHARTS

LUMEN CHART PERFORMANCE T4FTW SILICONE MICRO OPTICS W/HSS			
PART NUMBER	T4FTW HSS	LPW	WATTAGE
NV-3-160L-85-27K7-HSS	24447	58	420
NV-3-160L-85-27K8-HSS	22893	55	420
NV-3-160L-85-30K7-HSS	26432	63	420
NV-3-160L-85-30K8-HSS	24547	58	420
NV-3-160L-85-35K8-HSS	24547	58	420
NV-3-160L-85-40K7-HSS	28560	68	420
NV-3-160L-85-40K8-HSS	26436	63	420
NV-3-160L-85-50K7-HSS	28560	68	420
NV-3-160L-85-50K8-HSS	26436	63	420
NV-3-160L-90-27K7-HSS	25903	58	445
NV-3-160L-90-27K8-HSS	24257	55	445
NV-3-160L-90-30K7-HSS	28006	63	445
NV-3-160L-90-30K8-HSS	26009	58	445
NV-3-160L-90-35K8-HSS	26009	58	445
NV-3-160L-90-40K7-HSS	30260	68	445
NV-3-160L-90-40K8-HSS	28009	63	445
NV-3-160L-90-50K7-HSS	30260	68	445
NV-3-160L-90-50K8-HSS	28009	63	445
NV-3-160L-97-27K7-HSS	27882	58	479
NV-3-160L-97-27K8-HSS	26110	55	479
NV-3-160L-97-30K7-HSS	30145	63	479
NV-3-160L-97-30K8-HSS	27995	58	479
NV-3-160L-97-35K8-HSS	27995	58	479
NV-3-160L-97-40K7-HSS	32572	68	479
NV-3-160L-97-40K8-HSS	30149	63	479
NV-3-160L-97-50K7-HSS	32572	68	479
NV-3-160L-97-50K8-HSS	30149	63	479
NV-3-160L-1-27K7-HSS	30152	58	518
NV-3-160L-1-27K8-HSS	28236	55	518
NV-3-160L-1-30K7-HSS	32600	63	518
NV-3-160L-1-30K8-HSS	30275	58	518
NV-3-160L-1-35K8-HSS	30275	58	518
NV-3-160L-1-40K7-HSS	35224	68	518
NV-3-160L-1-40K8-HSS	32604	63	518
NV-3-160L-1-50K7-HSS	35224	68	518
NV-3-160L-1-50K8-HSS	32604	63	518
NV-3-160L-12-27K7-HSS	33446	56	592
NV-3-160L-12-27K8-HSS	31320	53	592
NV-3-160L-12-30K7-HSS	36161	61	592
NV-3-160L-12-30K8-HSS	33582	57	592
NV-3-160L-12-35K8-HSS	33582	57	592
NV-3-160L-12-40K7-HSS	39072	66	592
NV-3-160L-12-40K8-HSS	36166	61	592
NV-3-160L-12-50K7-HSS	39072	66	592
NV-3-160L-12-50K8-HSS	36166	61	592

LUMEN CHART PERFORMANCE T4FTW HSS SILICONE MICRO OPTICS W/HSS			
PART NUMBER	T4FTW HSS	LPW	WATTAGE
NV-3-192L-7-27K7-HSS	26643	64	415
NV-3-192L-7-27K8-HSS	24950	60	415
NV-3-192L-7-30K7-HSS	28806	69	415
NV-3-192L-7-30K8-HSS	26752	64	415
NV-3-192L-7-35K8-HSS	26752	64	415
NV-3-192L-7-40K7-HSS	31125	75	415
NV-3-192L-7-40K8-HSS	28810	69	415
NV-3-192L-7-50K7-HSS	31125	75	415
NV-3-192L-7-50K8-HSS	28810	69	415
NV-3-192L-8-27K7-HSS	30495	64	475
NV-3-192L-8-27K8-HSS	28557	60	475
NV-3-192L-8-30K7-HSS	32971	69	475
NV-3-192L-8-30K8-HSS	30619	64	475
NV-3-192L-8-35K8-HSS	30619	64	475
NV-3-192L-8-40K7-HSS	35625	75	475
NV-3-192L-8-40K8-HSS	32975	69	475
NV-3-192L-8-50K7-HSS	35625	75	475
NV-3-192L-8-50K8-HSS	32975	69	475
NV-3-192L-85-27K7-HSS	33651	67	504
NV-3-192L-85-27K8-HSS	31512	63	504
NV-3-192L-85-30K7-HSS	36383	72	504
NV-3-192L-85-30K8-HSS	33788	67	504
NV-3-192L-85-35K8-HSS	33788	67	504
NV-3-192L-85-40K7-HSS	39312	78	504
NV-3-192L-85-40K8-HSS	36388	72	504
NV-3-192L-85-50K7-HSS	39312	78	504
NV-3-192L-85-50K8-HSS	36388	72	504
NV-3-192L-9-27K7-HSS	37457	67	561
NV-3-192L-9-27K8-HSS	35077	63	561
NV-3-192L-9-30K7-HSS	40498	72	561
NV-3-192L-9-30K8-HSS	37610	67	561
NV-3-192L-9-35K8-HSS	37610	67	561
NV-3-192L-9-40K7-HSS	43758	78	561
NV-3-192L-9-40K8-HSS	40503	72	561
NV-3-192L-9-50K7-HSS	43758	78	561
NV-3-192L-9-50K8-HSS	40503	72	561
NV-3-192L-97-27K7-HSS	40595	67	608
NV-3-192L-97-27K8-HSS	38015	63	608
NV-3-192L-97-30K7-HSS	43891	72	608
NV-3-192L-97-30K8-HSS	40761	67	608
NV-3-192L-97-35K8-HSS	40761	67	608
NV-3-192L-97-40K7-HSS	47424	78	608
NV-3-192L-97-40K8-HSS	43896	72	608
NV-3-192L-97-50K7-HSS	47424	78	608
NV-3-192L-97-50K8-HSS	43896	72	608
NV-3-192L-1-27K7-HSS	41596	67	623
NV-3-192L-1-27K8-HSS	38952	63	623
NV-3-192L-1-30K7-HSS	44974	72	623
NV-3-192L-1-30K8-HSS	41766	67	623
NV-3-192L-1-35K8-HSS	41766	67	623
NV-3-192L-1-40K7-HSS	48594	78	623
NV-3-192L-1-40K8-HSS	44979	72	623
NV-3-192L-1-50K7-HSS	48594	78	623
NV-3-192L-1-50K8-HSS	44979	72	623

PRODUCT SPECIFICATIONS

LUMEN CHART PERFORMANCE T4FTW SILICONE MICRO OPTICS W/HSS			
PART NUMBER	T4FTW HSS	LPW	WATTAGE
NV-3-256L-35-27K7-HSS	23100	88	262
NV-3-256L-35-27K8-HSS	21632	83	262
NV-3-256L-35-30K7-HSS	24976	95	262
NV-3-256L-35-30K8-HSS	23195	89	262
NV-3-256L-35-35K8-HSS	23195	89	262
NV-3-256L-35-40K7-HSS	26986	103	262
NV-3-256L-35-40K8-HSS	24979	95	262
NV-3-256L-35-50K7-HSS	26986	103	262
NV-3-256L-35-50K8-HSS	24979	95	262
NV-3-256L-53-27K7-HSS	29565	74	397
NV-3-256L-53-27K8-HSS	27686	70	397
NV-3-256L-53-30K7-HSS	31966	81	397
NV-3-256L-53-30K8-HSS	29686	75	397
NV-3-256L-53-35K8-HSS	29686	75	397
NV-3-256L-53-40K7-HSS	34539	87	397
NV-3-256L-53-40K8-HSS	31970	81	397
NV-3-256L-53-50K7-HSS	34539	87	397
NV-3-256L-53-50K8-HSS	31970	81	397
NV-3-256L-7-27K7-HSS	31398	60	524
NV-3-256L-7-27K8-HSS	29403	56	524
NV-3-256L-7-30K7-HSS	33947	65	524
NV-3-256L-7-30K8-HSS	31526	60	524
NV-3-256L-7-35K8-HSS	31526	60	524
NV-3-256L-7-40K7-HSS	36680	70	524
NV-3-256L-7-40K8-HSS	33952	65	524
NV-3-256L-7-50K7-HSS	36680	70	524
NV-3-256L-7-50K8-HSS	33952	65	524
NV-3-256L-8-27K7-HSS	33841	56	599
NV-3-256L-8-27K8-HSS	31690	53	599
NV-3-256L-8-30K7-HSS	36589	61	599
NV-3-256L-8-30K8-HSS	33979	57	599
NV-3-256L-8-35K8-HSS	33979	57	599
NV-3-256L-8-40K7-HSS	39534	66	599
NV-3-256L-8-40K8-HSS	36593	61	599
NV-3-256L-8-50K7-HSS	39534	66	599
NV-3-256L-8-50K8-HSS	36593	61	599

LUMEN CHART PERFORMANCE T4FTW SILICONE MICRO OPTICS W/HSS			
PART NUMBER	T4FTW HSS	LPW	WATTAGE
NV-3-256L-85-27K7-HSS	37137	58	638
NV-3-256L-85-27K8-HSS	34777	55	638
NV-3-256L-85-30K7-HSS	40152	63	638
NV-3-256L-85-30K8-HSS	37288	58	638
NV-3-256L-85-35K8-HSS	37288	58	638
NV-3-256L-85-40K7-HSS	43384	68	638
NV-3-256L-85-40K8-HSS	40157	63	638
NV-3-256L-85-50K7-HSS	43384	68	638
NV-3-256L-85-50K8-HSS	40157	63	638
NV-3-256L-9-27K7-HSS	39290	58	675
NV-3-256L-9-27K8-HSS	36793	55	675
NV-3-256L-9-30K7-HSS	42480	63	675
NV-3-256L-9-30K8-HSS	39450	58	675
NV-3-256L-9-35K8-HSS	39450	58	675
NV-3-256L-9-40K7-HSS	45900	68	675
NV-3-256L-9-40K8-HSS	42486	63	675
NV-3-256L-9-50K7-HSS	45900	68	675
NV-3-256L-9-50K8-HSS	42486	63	675
NV-3-256L-97-27K7-HSS	42608	58	732
NV-3-256L-97-27K8-HSS	39900	55	732
NV-3-256L-97-30K7-HSS	46068	63	732
NV-3-256L-97-30K8-HSS	42782	58	732
NV-3-256L-97-35K8-HSS	42782	58	732
NV-3-256L-97-40K7-HSS	49776	68	732
NV-3-256L-97-40K8-HSS	46073	63	732
NV-3-256L-97-50K7-HSS	49776	68	732
NV-3-256L-97-50K8-HSS	46073	63	732
NV-3-256L-1-27K7-HSS	45867	58	788
NV-3-256L-1-27K8-HSS	42952	55	788
NV-3-256L-1-30K7-HSS	49591	63	788
NV-3-256L-1-30K8-HSS	46054	58	788
NV-3-256L-1-35K8-HSS	46054	58	788
NV-3-256L-1-40K7-HSS	53583	68	788
NV-3-256L-1-40K8-HSS	49597	63	788
NV-3-256L-1-50K7-HSS	53583	68	788
NV-3-256L-1-50K8-HSS	49597	63	788

PRODUCT SPECIFICATIONS

BUG RATINGS CHARTS

BUG RATING CHART STANDARD SILICONE MICRO OPTICS				
PART NUMBER	T2	T3	T4	T5
NV-3-160L-85-27K7	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-85-27K8	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-85-30K7	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-85-30K8	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-85-35K8	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-85-40K7	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-85-40K8	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-85-50K7	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-85-50K8	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-90-27K7	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-90-27K8	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-90-30K7	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-90-30K8	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-90-35K8	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-90-40K7	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-90-40K8	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-90-50K7	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-90-50K8	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-97-27K7	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-97-27K8	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-97-30K7	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-97-30K8	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-97-35K8	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-97-40K7	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-97-40K8	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-97-50K7	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-97-50K8	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-1-27K7	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-1-27K8	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-1-30K7	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-1-30K8	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-1-35K8	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-1-40K7	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-1-40K8	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-1-50K7	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-1-50K8	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-12-27K7	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-12-27K8	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-12-30K7	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-12-30K8	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-12-35K8	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-12-40K7	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-12-40K8	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-12-50K7	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-160L-12-50K8	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-192L-9-27K7	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-192L-9-27K8	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-192L-9-30K7	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-192L-9-30K8	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-192L-9-35K8	B4-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-192L-9-40K7	B4-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-192L-9-40K8	B4-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-192L-9-50K7	B4-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-192L-9-50K8	B4-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-192L-97-27K7	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-192L-97-27K8	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-192L-97-30K7	B4-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5

PRODUCT SPECIFICATIONS

BUG RATING CHART STANDARD SILICONE MICRO OPTICS				
PART NUMBER	T2	T3	T4	T5
NV-3-192L-97-30K8	B4-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-192L-97-35K8	B4-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-192L-97-40K7	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-192L-97-40K8	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-192L-97-50K7	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-192L-97-50K8	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-192L-1-27K7	B4-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-192L-1-27K8	B4-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-192L-1-30K7	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-192L-1-30K8	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-192L-1-35K8	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-192L-1-40K7	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-192L-1-40K8	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-192L-1-50K7	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-192L-1-50K8	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-256L-8-27K7	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-256L-8-27K8	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-256L-8-30K7	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-256L-8-30K8	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-256L-8-35K8	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-256L-8-40K7	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-256L-8-40K8	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-256L-8-50K7	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-256L-8-50K8	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-256L-85-27K7	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-256L-85-27K8	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-256L-85-30K7	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-256L-85-30K8	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-256L-85-35K8	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-256L-85-40K7	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-256L-85-40K8	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-256L-85-50K7	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-256L-85-50K8	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-256L-9-27K7	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-256L-9-27K8	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-256L-9-30K7	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-256L-9-30K8	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-256L-9-35K8	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-256L-9-40K7	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
NV-3-256L-9-40K8	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
NV-3-256L-9-50K7	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
NV-3-256L-9-50K8	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
NV-3-256L-97-27K7	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-256L-97-27K8	B5-U0-G5	B5-U0-G5	B4-U0-G5	B5-U0-G5
NV-3-256L-97-30K7	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
NV-3-256L-97-30K8	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
NV-3-256L-97-35K8	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
NV-3-256L-97-40K7	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
NV-3-256L-97-40K8	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
NV-3-256L-97-50K7	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
NV-3-256L-97-50K8	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
NV-3-256L-1-27K7	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
NV-3-256L-1-27K8	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
NV-3-256L-1-30K7	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
NV-3-256L-1-30K8	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
NV-3-256L-1-35K8	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
NV-3-256L-1-40K7	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
NV-3-256L-1-40K8	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
NV-3-256L-1-50K7	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
NV-3-256L-1-50K8	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5

PRODUCT SPECIFICATIONS

BUG RATING CHART PERFORMANCE T4FTW & T5W SILICONE MICRO OPTICS		
PART NUMBER	T4FTW	T5W
NV-3-160L-85-27K7	B4-U0-G5	B5-U0-G5
NV-3-160L-85-27K8	B4-U0-G5	B5-U0-G5
NV-3-160L-85-30K7	B4-U0-G5	B5-U0-G5
NV-3-160L-85-30K8	B4-U0-G5	B5-U0-G5
NV-3-160L-85-35K8	B4-U0-G5	B5-U0-G5
NV-3-160L-85-40K7	B4-U0-G5	B5-U0-G5
NV-3-160L-85-40K8	B4-U0-G5	B5-U0-G5
NV-3-160L-85-50K7	B4-U0-G5	B5-U0-G5
NV-3-160L-85-50K8	B4-U0-G5	B5-U0-G5
NV-3-160L-90-27K7	B4-U0-G5	B5-U0-G5
NV-3-160L-90-27K8	B4-U0-G5	B5-U0-G5
NV-3-160L-90-30K7	B4-U0-G5	B5-U0-G5
NV-3-160L-90-30K8	B4-U0-G5	B5-U0-G5
NV-3-160L-90-35K8	B4-U0-G5	B5-U0-G5
NV-3-160L-90-40K7	B4-U0-G5	B5-U0-G5
NV-3-160L-90-40K8	B4-U0-G5	B5-U0-G5
NV-3-160L-90-50K7	B4-U0-G5	B5-U0-G5
NV-3-160L-90-50K8	B4-U0-G5	B5-U0-G5
NV-3-160L-97-27K7	B4-U0-G5	B5-U0-G5
NV-3-160L-97-27K8	B4-U0-G5	B5-U0-G5
NV-3-160L-97-30K7	B4-U0-G5	B5-U0-G5
NV-3-160L-97-30K8	B4-U0-G5	B5-U0-G5
NV-3-160L-97-35K8	B4-U0-G5	B5-U0-G5
NV-3-160L-97-40K7	B4-U0-G5	B5-U0-G5
NV-3-160L-97-40K8	B4-U0-G5	B5-U0-G5
NV-3-160L-97-50K7	B4-U0-G5	B5-U0-G5
NV-3-160L-97-50K8	B4-U0-G5	B5-U0-G5
NV-3-160L-1-27K7	B4-U0-G5	B5-U0-G5
NV-3-160L-1-27K8	B4-U0-G5	B5-U0-G5
NV-3-160L-1-30K7	B4-U0-G5	B5-U0-G5
NV-3-160L-1-30K8	B4-U0-G5	B5-U0-G5
NV-3-160L-1-35K8	B4-U0-G5	B5-U0-G5
NV-3-160L-1-40K7	B4-U0-G5	B5-U0-G5
NV-3-160L-1-40K8	B4-U0-G5	B5-U0-G5
NV-3-160L-1-50K7	B4-U0-G5	B5-U0-G5
NV-3-160L-1-50K8	B4-U0-G5	B5-U0-G5
NV-3-160L-12-27K7	B4-U0-G5	B5-U0-G5
NV-3-160L-12-27K8	B4-U0-G5	B5-U0-G5
NV-3-160L-12-30K7	B4-U0-G5	B5-U0-G5
NV-3-160L-12-30K8	B4-U0-G5	B5-U0-G5
NV-3-160L-12-35K8	B4-U0-G5	B5-U0-G5
NV-3-160L-12-40K7	B4-U0-G5	B5-U0-G5
NV-3-160L-12-40K8	B4-U0-G5	B5-U0-G5
NV-3-160L-12-50K7	B4-U0-G5	B5-U0-G5
NV-3-160L-12-50K8	B4-U0-G5	B5-U0-G5

BUG RATING CHART PERFORMANCE T4FTW & T5W SILICONE MICRO OPTICS		
PART NUMBER	T4FTW	T5W
NV-3-192L-7-27K7	B4-U0-G5	B5-U0-G5
NV-3-192L-7-27K8	B4-U0-G5	B5-U0-G5
NV-3-192L-7-30K7	B4-U0-G5	B5-U0-G5
NV-3-192L-7-30K8	B4-U0-G5	B5-U0-G5
NV-3-192L-7-35K8	B4-U0-G5	B5-U0-G5
NV-3-192L-7-40K7	B4-U0-G5	B5-U0-G5
NV-3-192L-7-40K8	B4-U0-G5	B5-U0-G5
NV-3-192L-7-50K7	B4-U0-G5	B5-U0-G5
NV-3-192L-7-50K8	B4-U0-G5	B5-U0-G5
NV-3-192L-8-27K7	B4-U0-G5	B5-U0-G5
NV-3-192L-8-27K8	B4-U0-G5	B5-U0-G5
NV-3-192L-8-30K7	B4-U0-G5	B5-U0-G5
NV-3-192L-8-30K8	B4-U0-G5	B5-U0-G5
NV-3-192L-8-35K8	B4-U0-G5	B5-U0-G5
NV-3-192L-8-40K7	B4-U0-G5	B5-U0-G5
NV-3-192L-8-40K8	B4-U0-G5	B5-U0-G5
NV-3-192L-8-50K7	B4-U0-G5	B5-U0-G5
NV-3-192L-8-50K8	B4-U0-G5	B5-U0-G5
NV-3-192L-85-27K7	B4-U0-G5	B5-U0-G5
NV-3-192L-85-27K8	B4-U0-G5	B5-U0-G5
NV-3-192L-85-30K7	B4-U0-G5	B5-U0-G5
NV-3-192L-85-30K8	B4-U0-G5	B5-U0-G5
NV-3-192L-85-35K8	B4-U0-G5	B5-U0-G5
NV-3-192L-85-40K7	B4-U0-G5	B5-U0-G5
NV-3-192L-85-40K8	B4-U0-G5	B5-U0-G5
NV-3-192L-85-50K7	B4-U0-G5	B5-U0-G5
NV-3-192L-85-50K8	B4-U0-G5	B5-U0-G5
NV-3-192L-9-27K7	B4-U0-G5	B5-U0-G5
NV-3-192L-9-27K8	B4-U0-G5	B5-U0-G5
NV-3-192L-9-30K7	B4-U0-G5	B5-U0-G5
NV-3-192L-9-30K8	B4-U0-G5	B5-U0-G5
NV-3-192L-9-35K8	B4-U0-G5	B5-U0-G5
NV-3-192L-9-40K7	B4-U0-G5	B5-U0-G5
NV-3-192L-9-40K8	B4-U0-G5	B5-U0-G5
NV-3-192L-9-50K7	B4-U0-G5	B5-U0-G5
NV-3-192L-9-50K8	B4-U0-G5	B5-U0-G5
NV-3-192L-97-27K7	B4-U0-G5	B5-U0-G5
NV-3-192L-97-27K8	B4-U0-G5	B5-U0-G5
NV-3-192L-97-30K7	B4-U0-G5	B5-U0-G5
NV-3-192L-97-30K8	B4-U0-G5	B5-U0-G5
NV-3-192L-97-35K8	B4-U0-G5	B5-U0-G5
NV-3-192L-97-40K7	B4-U0-G5	B5-U0-G5
NV-3-192L-97-40K8	B4-U0-G5	B5-U0-G5
NV-3-192L-97-50K7	B4-U0-G5	B5-U0-G5
NV-3-192L-97-50K8	B4-U0-G5	B5-U0-G5
NV-3-192L-1-27K7	B4-U0-G5	B5-U0-G5
NV-3-192L-1-27K8	B4-U0-G5	B5-U0-G5
NV-3-192L-1-30K7	B4-U0-G5	B5-U0-G5
NV-3-192L-1-30K8	B4-U0-G5	B5-U0-G5
NV-3-192L-1-35K8	B4-U0-G5	B5-U0-G5
NV-3-192L-1-40K7	B4-U0-G5	B5-U0-G5
NV-3-192L-1-40K8	B4-U0-G5	B5-U0-G5
NV-3-192L-1-50K7	B4-U0-G5	B5-U0-G5
NV-3-192L-1-50K8	B4-U0-G5	B5-U0-G5

PRODUCT SPECIFICATIONS

BUG RATING CHART PERFORMANCE T4FTW & T5W SILICONE MICRO OPTICS		
PART NUMBER	T4FTW	T5W
NV-3-256L-35-27K7	B4-U0-G5	B5-U0-G5
NV-3-256L-35-27K8	B4-U0-G5	B5-U0-G5
NV-3-256L-35-30K7	B4-U0-G5	B5-U0-G5
NV-3-256L-35-30K8	B4-U0-G5	B5-U0-G5
NV-3-256L-35-35K8	B4-U0-G5	B5-U0-G5
NV-3-256L-35-40K7	B4-U0-G5	B5-U0-G5
NV-3-256L-35-40K8	B4-U0-G5	B5-U0-G5
NV-3-256L-35-50K7	B4-U0-G5	B5-U0-G5
NV-3-256L-35-50K8	B4-U0-G5	B5-U0-G5
NV-3-256L-53-27K7	B4-U0-G5	B5-U0-G5
NV-3-256L-53-27K8	B4-U0-G5	B5-U0-G5
NV-3-256L-53-30K7	B4-U0-G5	B5-U0-G5
NV-3-256L-53-30K8	B4-U0-G5	B5-U0-G5
NV-3-256L-53-35K8	B4-U0-G5	B5-U0-G5
NV-3-256L-53-40K7	B4-U0-G5	B5-U0-G5
NV-3-256L-53-40K8	B4-U0-G5	B5-U0-G5
NV-3-256L-53-50K7	B4-U0-G5	B5-U0-G5
NV-3-256L-53-50K8	B4-U0-G5	B5-U0-G5
NV-3-256L-7-27K7	B4-U0-G5	B5-U0-G5
NV-3-256L-7-27K8	B4-U0-G5	B5-U0-G5
NV-3-256L-7-30K7	B4-U0-G5	B5-U0-G5
NV-3-256L-7-30K8	B4-U0-G5	B5-U0-G5
NV-3-256L-7-35K8	B4-U0-G5	B5-U0-G5
NV-3-256L-7-40K7	B4-U0-G5	B5-U0-G5
NV-3-256L-7-40K8	B4-U0-G5	B5-U0-G5
NV-3-256L-7-50K7	B4-U0-G5	B5-U0-G5
NV-3-256L-7-50K8	B4-U0-G5	B5-U0-G5
NV-3-256L-8-27K7	B4-U0-G5	B5-U0-G5
NV-3-256L-8-27K8	B4-U0-G5	B5-U0-G5
NV-3-256L-8-30K7	B4-U0-G5	B5-U0-G5
NV-3-256L-8-30K8	B4-U0-G5	B5-U0-G5
NV-3-256L-8-35K8	B4-U0-G5	B5-U0-G5

BUG RATING CHART PERFORMANCE T4FTW & T5W SILICONE MICRO OPTICS		
PART NUMBER	T4FTW	T5W
NV-3-256L-8-40K7	B4-U0-G5	B5-U0-G5
NV-3-256L-8-40K8	B4-U0-G5	B5-U0-G5
NV-3-256L-8-50K7	B4-U0-G5	B5-U0-G5
NV-3-256L-8-50K8	B4-U0-G5	B5-U0-G5
NV-3-256L-9-27K7	B4-U0-G5	B5-U0-G5
NV-3-256L-9-27K8	B4-U0-G5	B5-U0-G5
NV-3-256L-9-30K7	B4-U0-G5	B5-U0-G5
NV-3-256L-9-30K8	B4-U0-G5	B5-U0-G5
NV-3-256L-9-35K8	B4-U0-G5	B5-U0-G5
NV-3-256L-9-40K7	B4-U0-G5	B5-U0-G5
NV-3-256L-9-40K8	B4-U0-G5	B5-U0-G5
NV-3-256L-9-50K7	B4-U0-G5	B5-U0-G5
NV-3-256L-9-50K8	B4-U0-G5	B5-U0-G5
NV-3-256L-97-27K7	B4-U0-G5	B5-U0-G5
NV-3-256L-97-27K8	B4-U0-G5	B5-U0-G5
NV-3-256L-97-30K7	B4-U0-G5	B5-U0-G5
NV-3-256L-97-30K8	B4-U0-G5	B5-U0-G5
NV-3-256L-97-35K8	B4-U0-G5	B5-U0-G5
NV-3-256L-97-40K7	B4-U0-G5	B5-U0-G5
NV-3-256L-97-40K8	B4-U0-G5	B5-U0-G5
NV-3-256L-97-50K7	B4-U0-G5	B5-U0-G5
NV-3-256L-97-50K8	B4-U0-G5	B5-U0-G5
NV-3-256L-1-27K7	B5-U0-G5	B5-U0-G5
NV-3-256L-1-27K8	B5-U0-G5	B5-U0-G5
NV-3-256L-1-30K7	B5-U0-G5	B5-U0-G5
NV-3-256L-1-30K8	B5-U0-G5	B5-U0-G5
NV-3-256L-1-35K8	B5-U0-G5	B5-U0-G5
NV-3-256L-1-40K7	B5-U0-G5	B5-U0-G5
NV-3-256L-1-40K8	B5-U0-G5	B5-U0-G5
NV-3-256L-1-50K7	B5-U0-G5	B5-U0-G5
NV-3-256L-1-50K8	B5-U0-G5	B5-U0-G5

PRODUCT SPECIFICATIONS

HSS BUG RATING CHARTS

BUG RATING CHART PERFORMANCE T4FTW SILICONE MICRO OPTICS W/HSS	
PART NUMBER	T4FTW HSS
NV-3-160L-85-27K7-HSS	B2-U0-G4
NV-3-160L-85-27K8-HSS	B2-U0-G4
NV-3-160L-85-30K7-HSS	B2-U0-G5
NV-3-160L-85-30K8-HSS	B2-U0-G5
NV-3-160L-85-35K8-HSS	B2-U0-G5
NV-3-160L-85-40K7-HSS	B2-U0-G5
NV-3-160L-85-40K8-HSS	B2-U0-G5
NV-3-160L-85-50K7-HSS	B2-U0-G5
NV-3-160L-85-50K8-HSS	B2-U0-G5
NV-3-160L-90-27K7-HSS	B2-U0-G5
NV-3-160L-90-27K8-HSS	B2-U0-G5
NV-3-160L-90-30K7-HSS	B2-U0-G5
NV-3-160L-90-30K8-HSS	B3-U0-G5
NV-3-160L-90-35K8-HSS	B3-U0-G5
NV-3-160L-90-40K7-HSS	B3-U0-G5
NV-3-160L-90-40K8-HSS	B3-U0-G5
NV-3-160L-90-50K7-HSS	B3-U0-G5
NV-3-160L-90-50K8-HSS	B3-U0-G5
NV-3-160L-97-27K7-HSS	B3-U0-G5
NV-3-160L-97-27K8-HSS	B3-U0-G5
NV-3-160L-97-30K7-HSS	B3-U0-G5
NV-3-160L-97-30K8-HSS	B3-U0-G5
NV-3-160L-97-35K8-HSS	B3-U0-G5
NV-3-160L-97-40K7-HSS	B3-U0-G5
NV-3-160L-97-40K8-HSS	B3-U0-G5
NV-3-160L-97-50K7-HSS	B3-U0-G5
NV-3-160L-97-50K8-HSS	B3-U0-G5
NV-1-16L-1-27K7-HSS	B0-U0-G1
NV-1-16L-1-27K8-HSS	B0-U0-G1
NV-1-16L-1-30K7-HSS	B0-U0-G1
NV-1-16L-1-30K8-HSS	B0-U0-G1
NV-1-16L-1-35K8-HSS	B0-U0-G1
NV-1-16L-1-40K7-HSS	B0-U0-G1
NV-1-16L-1-40K8-HSS	B0-U0-G1
NV-1-16L-1-50K7-HSS	B0-U0-G1
NV-1-16L-1-50K8-HSS	B0-U0-G1

BUG RATING CHART PERFORMANCE T4FTW SILICONE MICRO OPTICS W/HSS	
PART NUMBER	T4FTW HSS
NV-3-160L-1-27K7-HSS	B3-U0-G5
NV-3-160L-1-27K8-HSS	B3-U0-G5
NV-3-160L-1-30K7-HSS	B3-U0-G5
NV-3-160L-1-30K8-HSS	B3-U0-G5
NV-3-160L-1-35K8-HSS	B3-U0-G5
NV-3-160L-1-40K7-HSS	B3-U0-G5
NV-3-160L-1-40K8-HSS	B3-U0-G5
NV-3-160L-1-50K7-HSS	B3-U0-G5
NV-3-160L-1-50K8-HSS	B3-U0-G5
NV-3-160L-12-27K7-HSS	B3-U0-G5
NV-3-160L-12-27K8-HSS	B3-U0-G5
NV-3-160L-12-30K7-HSS	B3-U0-G5
NV-3-160L-12-30K8-HSS	B3-U0-G5
NV-3-160L-12-35K8-HSS	B3-U0-G5
NV-3-160L-12-40K7-HSS	B3-U0-G5
NV-3-160L-12-40K8-HSS	B3-U0-G5
NV-3-160L-12-50K7-HSS	B3-U0-G5
NV-3-160L-12-50K8-HSS	B3-U0-G5
NV-3-192L-7-27K7-HSS	B3-U0-G5
NV-3-192L-7-27K8-HSS	B3-U0-G5
NV-3-192L-7-30K7-HSS	B3-U0-G5
NV-3-192L-7-30K8-HSS	B3-U0-G5
NV-3-192L-7-35K8-HSS	B3-U0-G5
NV-3-192L-7-40K7-HSS	B3-U0-G5
NV-3-192L-7-40K8-HSS	B3-U0-G5
NV-3-192L-7-50K7-HSS	B3-U0-G5
NV-3-192L-7-50K8-HSS	B3-U0-G5
NV-3-192L-8-27K7-HSS	B3-U0-G5
NV-3-192L-8-27K8-HSS	B3-U0-G5
NV-3-192L-8-30K7-HSS	B3-U0-G5
NV-3-192L-8-30K8-HSS	B3-U0-G5
NV-3-192L-8-35K8-HSS	B3-U0-G5
NV-3-192L-8-40K7-HSS	B3-U0-G5
NV-3-192L-8-40K8-HSS	B3-U0-G5
NV-3-192L-8-50K7-HSS	B3-U0-G5
NV-3-192L-8-50K8-HSS	B3-U0-G5

BUG RATING CHART PERFORMANCE T4FTW SILICONE MICRO OPTICS W/HSS	
PART NUMBER	T4FTW HSS
NV-3-192L-85-27K7-HSS	B3-U0-G5
NV-3-192L-85-27K8-HSS	B3-U0-G5
NV-3-192L-85-30K7-HSS	B3-U0-G5
NV-3-192L-85-30K8-HSS	B3-U0-G5
NV-3-192L-85-35K8-HSS	B3-U0-G5
NV-3-192L-85-40K7-HSS	B3-U0-G5
NV-3-192L-85-40K8-HSS	B3-U0-G5
NV-3-192L-85-50K7-HSS	B3-U0-G5
NV-3-192L-85-50K8-HSS	B3-U0-G5
NV-3-192L-9-27K7-HSS	B3-U0-G5
NV-3-192L-9-27K8-HSS	B3-U0-G5
NV-3-192L-9-30K7-HSS	B3-U0-G5
NV-3-192L-9-30K8-HSS	B3-U0-G5
NV-3-192L-9-35K8-HSS	B3-U0-G5
NV-3-192L-9-40K7-HSS	B3-U0-G5
NV-3-192L-9-40K8-HSS	B3-U0-G5
NV-3-192L-9-50K7-HSS	B3-U0-G5
NV-3-192L-9-50K8-HSS	B3-U0-G5
NV-3-192L-97-27K7-HSS	B3-U0-G5
NV-3-192L-97-27K8-HSS	B3-U0-G5
NV-3-192L-97-30K7-HSS	B3-U0-G5
NV-3-192L-97-30K8-HSS	B3-U0-G5
NV-3-192L-97-35K8-HSS	B3-U0-G5
NV-3-192L-97-40K7-HSS	B3-U0-G5
NV-3-192L-97-40K8-HSS	B3-U0-G5
NV-3-192L-97-50K7-HSS	B3-U0-G5
NV-3-192L-97-50K8-HSS	B3-U0-G5
NV-3-192L-1-27K7-HSS	B3-U0-G5
NV-3-192L-1-27K8-HSS	B3-U0-G5
NV-3-192L-1-30K7-HSS	B3-U0-G5
NV-3-192L-1-30K8-HSS	B3-U0-G5
NV-3-192L-1-35K8-HSS	B3-U0-G5
NV-3-192L-1-40K7-HSS	B3-U0-G5
NV-3-192L-1-40K8-HSS	B3-U0-G5
NV-3-192L-1-50K7-HSS	B3-U0-G5
NV-3-192L-1-50K8-HSS	B3-U0-G5

PRODUCT SPECIFICATIONS

BUG RATING CHART PERFORMANCE T4FTW SILICONE MICRO OPTICS W/HSS	
PART NUMBER	T4FTW HSS
NV-3-256L-35-27K7-HSS	B2-U0-G4
NV-3-256L-35-27K8-HSS	B2-U0-G4
NV-3-256L-35-30K7-HSS	B2-U0-G5
NV-3-256L-35-30K8-HSS	B2-U0-G5
NV-3-256L-35-35K8-HSS	B2-U0-G5
NV-3-256L-35-40K7-HSS	B2-U0-G5
NV-3-256L-35-40K8-HSS	B2-U0-G5
NV-3-256L-35-50K7-HSS	B2-U0-G5
NV-3-256L-35-50K8-HSS	B2-U0-G5
NV-3-256L-53-27K7-HSS	B2-U0-G5
NV-3-256L-53-27K8-HSS	B2-U0-G5
NV-3-256L-53-30K7-HSS	B2-U0-G5
NV-3-256L-53-30K8-HSS	B2-U0-G5
NV-3-256L-53-35K8-HSS	B2-U0-G5
NV-3-256L-53-40K7-HSS	B2-U0-G5
NV-3-256L-53-40K8-HSS	B2-U0-G5
NV-3-256L-53-50K7-HSS	B2-U0-G5
NV-3-256L-53-50K8-HSS	B2-U0-G5
NV-3-256L-7-27K7-HSS	B2-U0-G5
NV-3-256L-7-27K8-HSS	B2-U0-G5
NV-3-256L-7-30K7-HSS	B2-U0-G5
NV-3-256L-7-30K8-HSS	B2-U0-G5
NV-3-256L-7-35K8-HSS	B2-U0-G5
NV-3-256L-7-40K7-HSS	B2-U0-G5
NV-3-256L-7-40K8-HSS	B2-U0-G5
NV-3-256L-7-50K7-HSS	B2-U0-G5
NV-3-256L-7-50K8-HSS	B2-U0-G5
NV-3-256L-8-27K7-HSS	B2-U0-G5
NV-3-256L-8-27K8-HSS	B2-U0-G5
NV-3-256L-8-30K7-HSS	B2-U0-G5
NV-3-256L-8-30K8-HSS	B2-U0-G5
NV-3-256L-8-35K8-HSS	B2-U0-G5
NV-3-256L-8-40K7-HSS	B2-U0-G5
NV-3-256L-8-40K8-HSS	B2-U0-G5
NV-3-256L-8-50K7-HSS	B2-U0-G5
NV-3-256L-8-50K8-HSS	B2-U0-G5

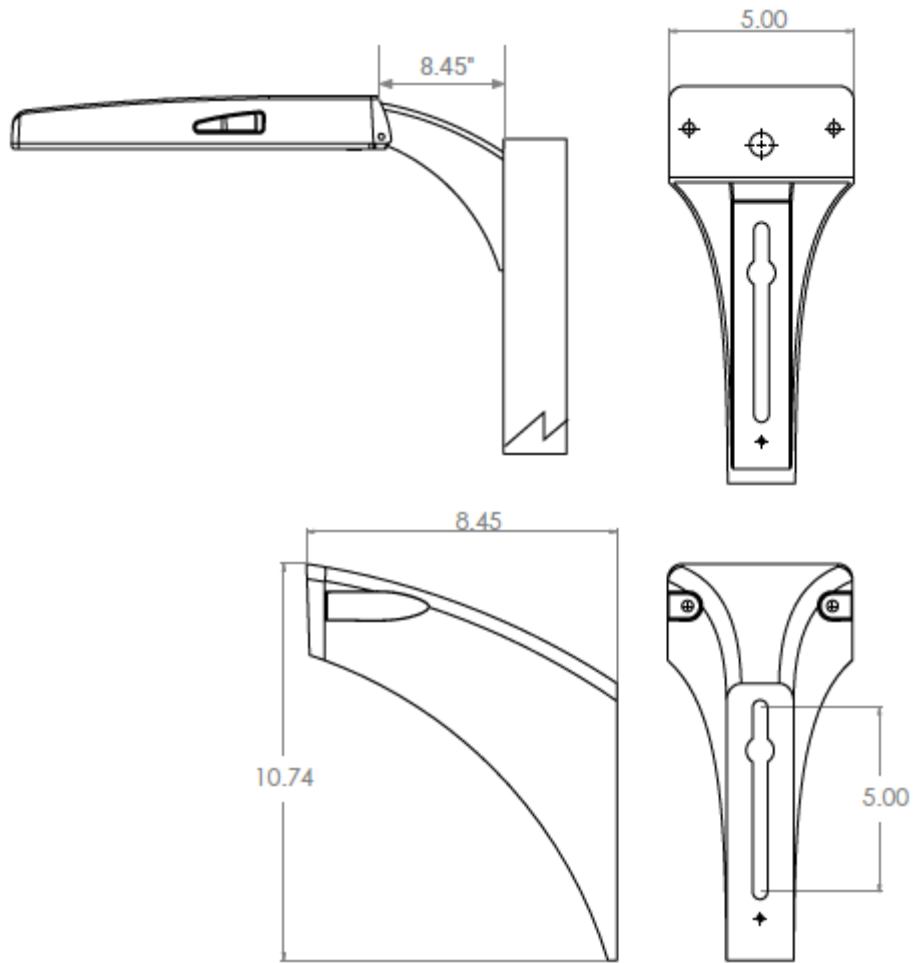
BUG RATING CHART PERFORMANCE T4FTW SILICONE MICRO OPTICS W/HSS	
PART NUMBER	T4FTW HSS
NV-3-256L-85-27K7-HSS	B2-U0-G5
NV-3-256L-85-27K8-HSS	B2-U0-G5
NV-3-256L-85-30K7-HSS	B2-U0-G5
NV-3-256L-85-30K8-HSS	B2-U0-G5
NV-3-256L-85-35K8-HSS	B2-U0-G5
NV-3-256L-85-40K7-HSS	B2-U0-G5
NV-3-256L-85-40K8-HSS	B2-U0-G5
NV-3-256L-85-50K7-HSS	B2-U0-G5
NV-3-256L-85-50K8-HSS	B2-U0-G5
NV-3-256L-9-27K7-HSS	B2-U0-G5
NV-3-256L-9-27K8-HSS	B2-U0-G5
NV-3-256L-9-30K7-HSS	B2-U0-G5
NV-3-256L-9-30K8-HSS	B2-U0-G5
NV-3-256L-9-35K8-HSS	B2-U0-G5
NV-3-256L-9-40K7-HSS	B3-U0-G5
NV-3-256L-9-40K8-HSS	B3-U0-G5
NV-3-256L-9-50K7-HSS	B3-U0-G5
NV-3-256L-9-50K8-HSS	B3-U0-G5
NV-3-256L-97-27K7-HSS	B2-U0-G5
NV-3-256L-97-27K8-HSS	B2-U0-G5
NV-3-256L-97-30K7-HSS	B3-U0-G5
NV-3-256L-97-30K8-HSS	B3-U0-G5
NV-3-256L-97-35K8-HSS	B3-U0-G5
NV-3-256L-97-40K7-HSS	B3-U0-G5
NV-3-256L-97-40K8-HSS	B3-U0-G5
NV-3-256L-97-50K7-HSS	B3-U0-G5
NV-3-256L-97-50K8-HSS	B3-U0-G5
NV-3-256L-1-27K7-HSS	B3-U0-G5
NV-3-256L-1-27K8-HSS	B3-U0-G5
NV-3-256L-1-30K7-HSS	B3-U0-G5
NV-3-256L-1-30K8-HSS	B3-U0-G5
NV-3-256L-1-35K8-HSS	B3-U0-G5
NV-3-256L-1-40K7-HSS	B3-U0-G5
NV-3-256L-1-40K8-HSS	B3-U0-G5
NV-3-256L-1-50K7-HSS	B3-U0-G5
NV-3-256L-1-50K8-HSS	B3-U0-G5

PRODUCT SPECIFICATIONS

MOUNTING OPTIONS

ARCHITECTURAL SWEEP ARM (ASA)

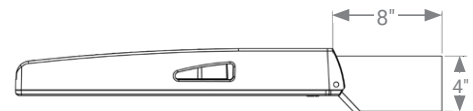
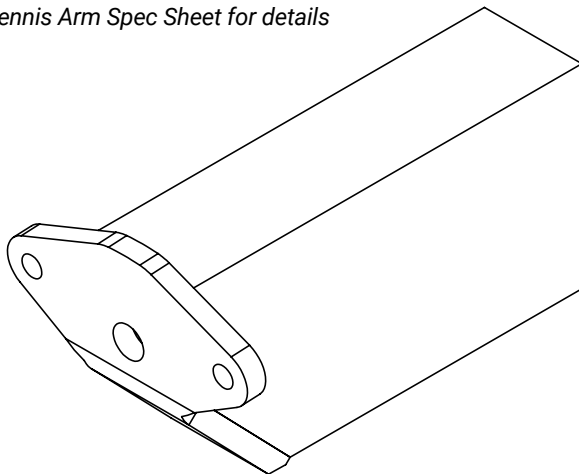
Cast Sweep Arm includes integral Quick Mount Bracket.



TENNIS ARM MOUNT (TA)

Steel fitter slips over 3.5" x 1.5" rectangular arm.

**See Tennis Arm Spec Sheet for details*



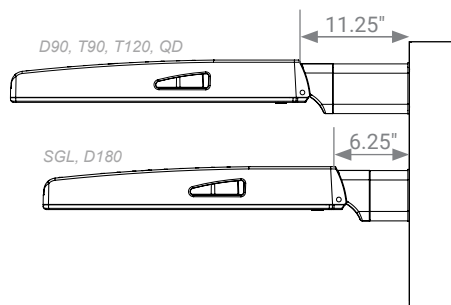
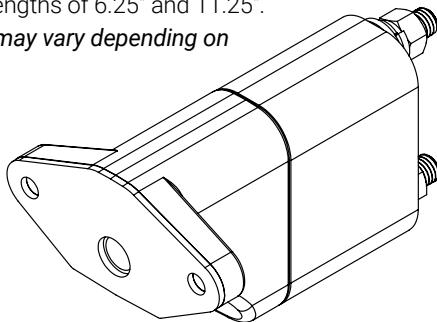
PRODUCT SPECIFICATIONS

MOUNTING OPTIONS

DIRECT POLE (DP)

Standard mounting arm is extruded aluminum in lengths of 6.25" and 11.25".

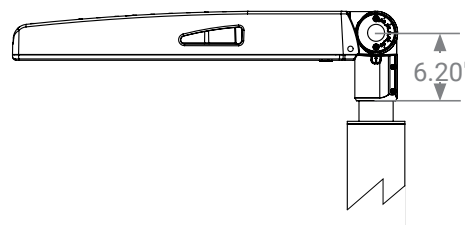
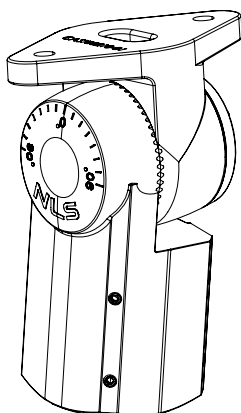
**Arm lengths may vary depending on configuration*



KNUCKLE MOUNT (KM)

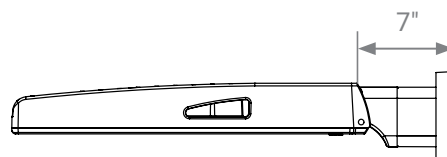
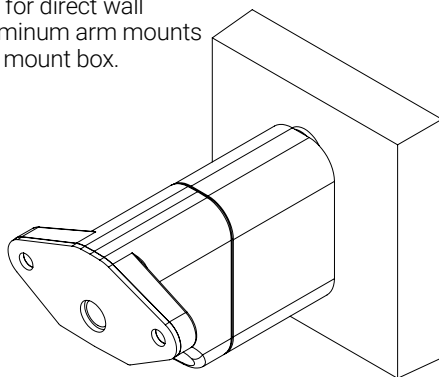
Die Cast Knuckle great for adjustable installation on 2-3/8" OD vertical or horizontal tenon.

- Max Uplift of 90 degrees
- Adjustable in 6 degree increments



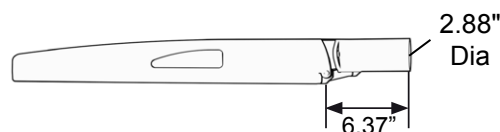
WALL MOUNT (WM)

Cast Aluminum Plate for direct wall mount. 2 piece 7" aluminum arm mounts directly to a cast wall mount box.



MAST ARM MOUNT (MA)

Mast Arm Fitter slips over 2-3/8" OD tenon.

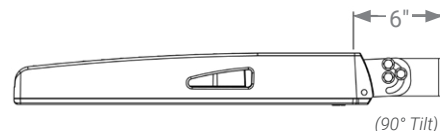
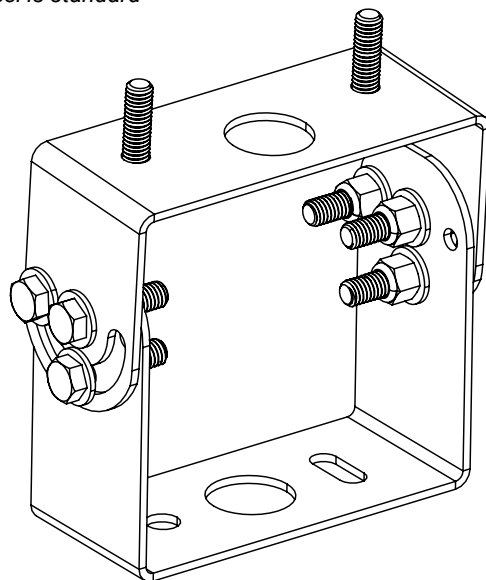


PRODUCT SPECIFICATIONS

TRUNNION MOUNT (TM)

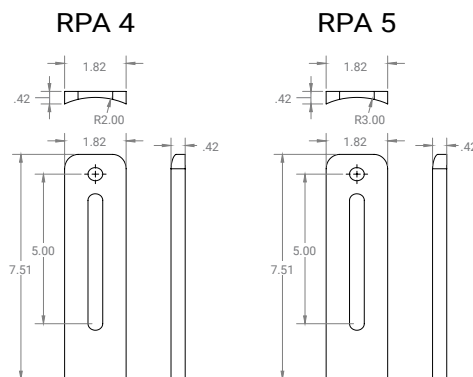
Steel, bolt-on-mounting for adjustable installation with a maximum uplift of 90 degrees.

**Unpainted stainless steel is standard*



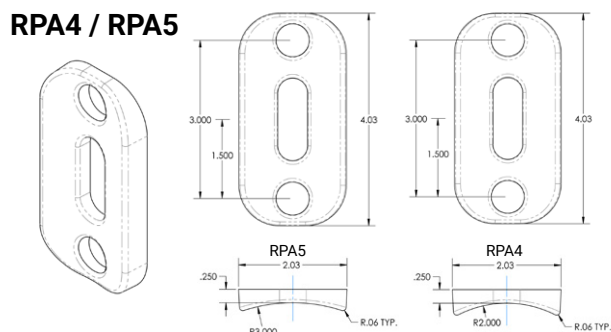
ASA - ROUND POLE ADAPTER OPTIONS (RPA4) (RPA5)

When using round poles, specify Round Pole Adapter (RPA). Specify RPA4 when installing on 3"-4" round poles, and RPA5 when installing on 5"-6" round poles.



ROUND POLE ADAPTER OPTIONS (RPA4) (RPA5)

When using round poles, specify Round Pole Adapter (RPA). Specify RPA4 when installing on 3"-4" round poles, and RPA5 when installing on 5"-6" round poles.



PRODUCT SPECIFICATIONS

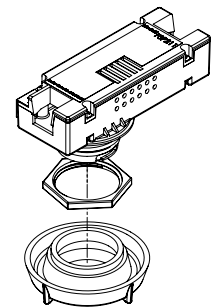
CONTROL OPTIONS

- DIMMING CONTROL (FSP)—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution
- All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
- FSP-8 mounting heights 8 feet and below
- FSP-20 mounting heights 9-20 feet.
- FSP-40 mounting heights 21-40 feet.
- Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.

FSP-211 WITH MOTION SENSOR (FSP-XX)

- FSP-211(FSP-X)—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
- 120/277VAC, 230-240VAC
- All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
- FSP-8 mounting heights 8 feet and below
- FSP-20 mounting heights 9-20 feet.
- FSP-40 mounting heights 21-40 feet.
- Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.

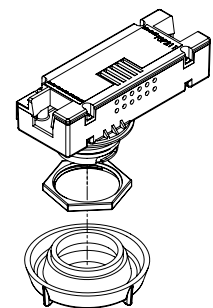
FSP-211



FSP-221 WITH MOTION SENSOR (FSP-HV-XX)

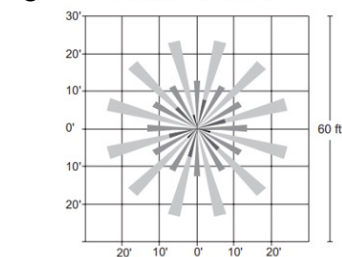
- FSP-221 (FSP-HV-X)—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
- 100-347VAC 208/230/480VAC
- All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
- FSP-8 mounting heights 8 feet and below
- FSP-20 mounting heights 9-20 feet.
- FSP-40 mounting heights 21-40 feet.
- Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.

FSP-221



FSP-8

Coverage Top View @ 12ft.

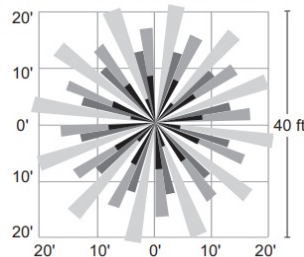


Coverage Side View



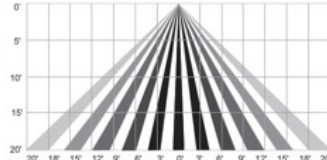
FSP-20

Coverage Top View @ 20 ft.



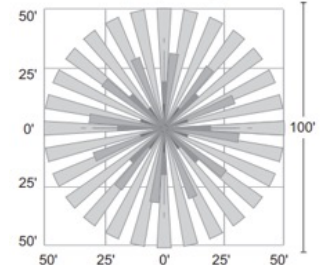
Coverage Side View

Ceiling

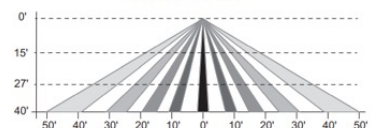


FSP-40

Coverage Top View @ 40ft



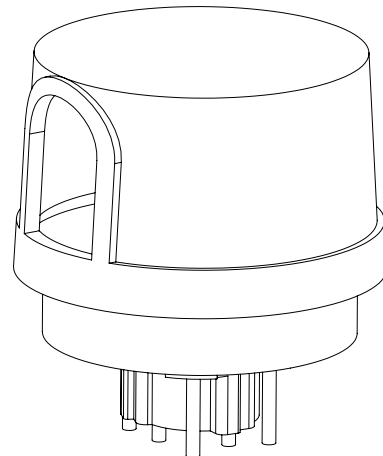
Coverage Side View



PRODUCT SPECIFICATIONS

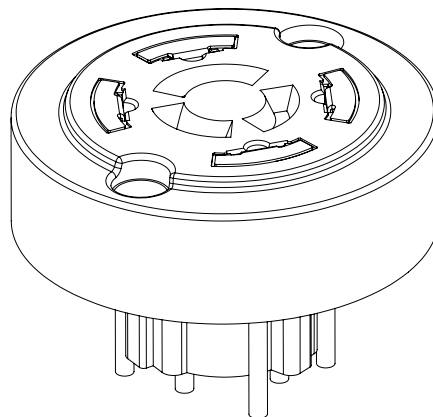
PHOTOCELL + RECEPTACLE (PCR)

7-Pin Receptacle and Electronic Twist Lock Photocell for dusk to dawn operation.



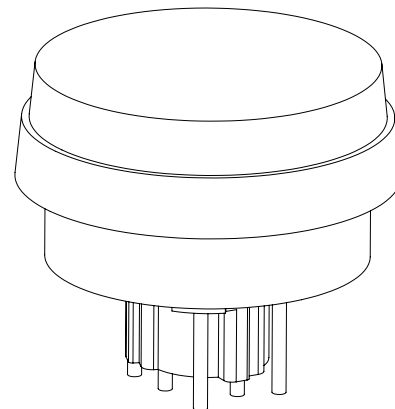
NEMA 7-PIN RECEPTACLE (PE7)

An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.



RECEPTACLE + SHORTING CAP (PER)

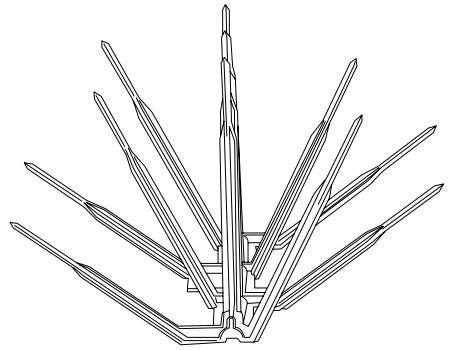
7-Pin Receptacle and Shorting Cap.



PRODUCT SPECIFICATIONS

BIRD SPIKES (BS)

Bird Spikes offer an effective and humane deterrent for larger bird species and provide a cost-effective long-term solution to nuisance bird infestations and protect your property.



MARINE GRADE FINISH (MGF)

The **(MGF)** is a multi step process. Chemically washed in a 5 stage cleaning system. Pre-baked. Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer. Oven Baked. Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.



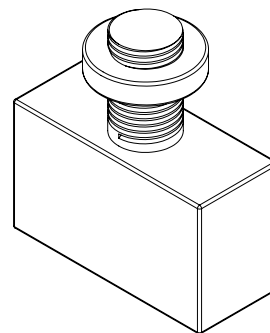
Powder Coat Finish
3-5 mil Powder Coat

Primer Layer
3-5 mil Zinc Rich Super Durable Polyester Primer

Prepared Casting
Chemically washed in multi Step 5 stage cleaning process

BUTTON PHOTOCELL

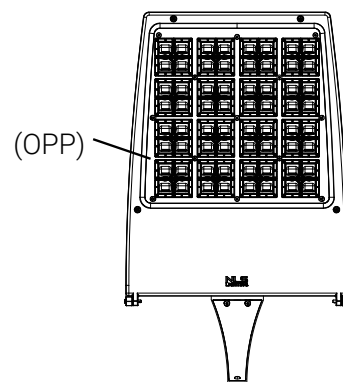
Photo Cell for dusk to dawn operation.



PRODUCT SPECIFICATIONS

OPTIC PLATE PAINTED TO MATCH (OPP)

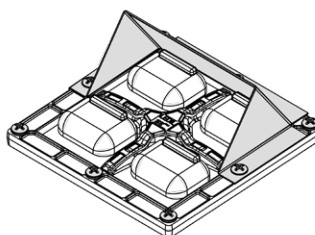
Optic plate is clear anodized as standard. The optic plate can be powder coated to match the finish of the fixture.



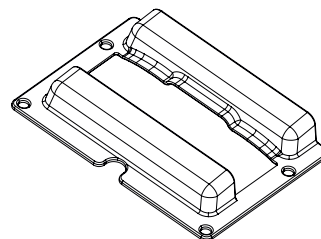
SHIELDING OPTIONS (AHS) (HSS)

SHIELDS (HSS, AHS)—House Side Shield (HSS) is designed for full property line cut-off. Automotive House Side Shield (AHS) is a single-sided shield allowing partial cut-off on either side or front of luminaire.

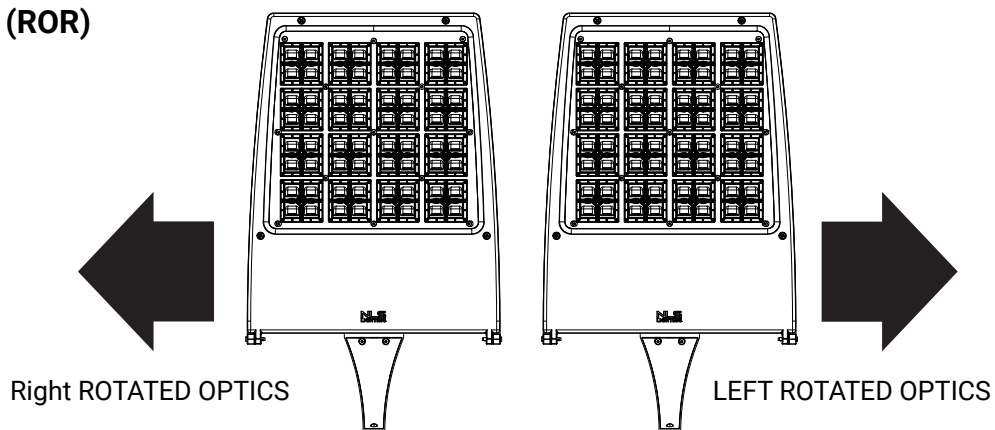
AUTOMOTIVE HOUSE SIDE SHIELD



HOUSE SIDE SHIELD



ROTATED OPTICS (ROL) (ROR)



PRODUCT SPECIFICATIONS

BLACK OPTIC FRAME

Optional Black Optic Frame (includes black hardware)
Standard Optic Frame is white.



LENS OPTIONS

GL LENS (GL)

Low Iron Glass, fully tempered

Optional Glass Lens with larger optic housing. Only available in specific configurations.



GLASS LENS CONFIGURATIONS	
160L	900mA
160L	975mA
160L	1050mA
192L	900mA
192L	975mA
192L	1050mA
256L	800mA
256L	850mA
256L	900mA

HAL LENS

High Performance Amber Lens

High Performance Yellow Polycarbonate Lens – less than 2% Blue Light Content

