



LED Wattage Chart

DRIVE CURRENT	16L	32L	48L	64L
350 milliamps	-	-	-	68W (6758-9180 Lumens)
530 milliamps	-	-	-	103W (9412-13802 Lumens)
700 milliamps	36W (4385-4720 Lumens)	71W (8770-9439 Lumens)	104W (13154-14159 Lumens)	136W (17539-18897 Lumens)
1050 milliamps	56W (6022-6482 Lumens)	106W (11797-12698 Lumens)	156W (17360-18686 Lumens)	205W (22627-24355 Lumens)

FORM

- Elegant Rectilinear Extruded Aluminum Housing
- Corrosion Resistant Stainless Steel External Hardware
- Sleek, Low Profile Housing
- Spec Grade Performance
- Engineered For Optimum Thermal Management
- Anchor Base Plate For Easy Installation
- 8 Architectural Finishes Standard, RAL Colors Available

FUNCTION

- Micro Optics IES Distributions T2, T3, T4, T4FTW, T5, T5W
- 0-10V Dimming Drivers THD @ Max Load < 15% Power factor @ Max Load < 0.95
- Amber, Amber/PC, 2700K, 3000K, 3500K, 4000K, Or 5000K
- 16L to 64L LED Configuration
- 36-205 Watts (Single Head Wattage)
- CRI 70, 80, or 90
- Extruded Aluminum Heat Sink
- 5 Mils Powder Coat
- Aluminum Pole .250 Wall

RELIABILITY

- Silicone Micro Optics
- 5 Year Standard Warranty
- IP67 Optics
- Reduces Energy Consumption And Costs Up To 65%
- Dark Sky Approved

BUY AMERICAN

To ensure the latest BAA/TAA/BABA Standards are being met, please select BAA, TAA, or BABA in the options section. Please contact the factory before placing an order for any NLS products requesting BAA (Buy American Act), TAA (Trade American Act), or BABA (Build America, Buy America).



Project Name:

Type:

TRC-4 ORDERING GUIDE

Cat#	Light Dist.	# of LEDs	Drive Current	Color Temp./CRI	Voltage
Trac 4 (TRC-4)	Standard Silicone Micro Optics		Standard Configurations		Amber LED 595nm Dominant Wavelength Standard Turtle Friendly (AMBER) ^{1, 7, 9, 13} Amber LED Phosphor Converted (AMBER/PC) ^{1, 7, 9, 13} 2700K, 70 CRI (27K7) ^{2,5} 2700K, 80 CRI (27K8) ^{2,5} 3000K, 70 CRI (30K7) ^{2,5} 3000K, 80 CRI (30K8) ^{2,5} 3500K, 80 CRI (35K8) ² 4000K, 70 CRI (40K7) ² 4000K, 80 CRI (40K8) ² 5000K, 70 CRI (50K7) ² 5000K, 80 CRI (50K8) ²
	Type 2 (T2)	16 LED (16L)	700 mA (7)		
	Type 3 (T3)	32 LED (32L)	1050 mA (1)		
	Type 4 (T4)	48 LED (48L)			
	Type 5 (T5)	64 LED (64L)			
	Performance Silicone Micro Optics		Standard Configurations		
	Type 4 Forward Throw Wide (For Perimeters) (T4FTW)*	16 LED (16L)	700 mA (7)		
	Type 5 Wide (T5W)*	32 LED (32L)	1050 mA (1)		
	(for Improved Uniformity & Wider Pole Spacing)	48 LED (48L)			
		64 LED (64L)			
		Performance Plus Configurations*			
		64 LED (64L)	350 mA (35) ⁸		
			530 mA (53) ⁸		

* Performance Plus configurations with our New Performance Silicone Optics.
(For the ultimate performance of the New Performance Silicone Optics combine
highest chip count with High Efficacy Drive Currents)

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(For the ultimate performance of the New Performance Silicone Optics combine
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Config.	Color	Controls Options	Options	Pole Height	Pole Options
Single (SGL)	Bronze Textured (BRZ)	Button Type Photocell (PC) ⁴	Marine Grade Finish (MGF)	20' (20)	GFI Kit (GFI20A) ^{16, 17, 18} 20 Amp Weather Proof Receptacle
Double (D-180)	White Textured (WHT)	Nema 7-Pin Receptacle (PE7) ³	House Side Shield (HSS)	22' (22)	GFI Provision Only (PROV) ^{17, 18}
	Smooth White Gloss (SWT)	Photocell + Receptacle (PCR) ³	Automotive House Side Shield (AHS)	24' (24)	1 / 2" Coupling (COUP) ¹⁸ *Specify Location
	Silver Metallic (SVR)	Receptacle + Shorting Cap (PER) ³	Rotated Optic Left (ROL)	26' (26)	Vibration Dampener (VD)
MPF (MPF) ¹⁵	Black Textured (BLK)	FSP-211 w/Motion Sensor/Photocell (120/277VAC, 230-240VAC)	Rotated Optic Right (ROR)	No Pole (NP)	Extra Hand Hole (XHH) ¹⁸ *Specify Location
	Smooth Black Gloss (SBK)	8' Heights (FSP211-8) ^{4, 10}	Buy American Act (BAA) ⁸	Aluminum Pole .250 Wall comes with 12" Anchor Base, 1" Thick, 1" Anchor Bolts	
MPF Triple (TRI) ¹⁵	Graphite Textured (GPH)	9'-20' Heights (FSP211-20) ^{4, 10}	Trade Agreement Act (TAA) ⁸		
	Grey Textured (GRY)	21'-40' Heights (FSP211-40) ^{4, 10}	Build America Buy American (BABA) ⁸		
MPF Quad (QD) ¹⁵	Green Textured (GRN)	FSP-221 w/Motion Sensor/Photocell (100/347VAC, 208/230/480VAC)			
	Hunter Green Textured (HGN)	8' Heights (FSP-HV-8) ¹¹			
	Custom (CS)	9'-20' Heights (FSP-HV-20) ¹¹			
		21'-40' Heights (FSP-HV-40) ¹¹			
		Custom Controls Integration (CCI) ⁶			
		FSP Remote (FSIR) ¹²			

NOTES:

1. Consult Factory for Lead Time
2. Consult Factory for 90 CRI Requests
3. Only Available When Ordering NLS Pole
4. Universal Voltage 120V-277V
5. 3000K or lower must be selected to meet International Dark-Sky Association Certification
6. Please contact Crestron, DMX/RDM Factory for Custom Control Integration requests (nLight, NX, WaveLinX, Synapse, Casambi, Dali II, Avi-On, or other control systems)
7. Turtle Safe
8. Consult Factory for all BAA/TAA/BABA requests
9. Not available above 530mA
10. FSP-211, 120V/277V, 230-240VAC (single phase), 50/60Hz
11. FSP-221, 100-347VAC (single phase) or 208/230/480VAC (phase-to-phase)
12. Projects with sensors require Qty. 1 FSIR per project
13. See estimated scaling chart for multiplier values to estimate lumen output Please contact Factory to verify the estimated performance data
14. Please contact Factory for 26' or above requests
15. MPF Mid Pole Fixture. Consult Factory
16. Standard weatherproof cover comes standard with option. For lockable cover requests, please contact factory
17. 120V Only
18. Specify the Height (in feet) from ground level and degree orientation from wire access slot.



701 Kingshill Place, Carson, CA 90746
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nlsighting.com

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 drivers, controls, and sensors housed in enclosed compartment
- CRI 70, 80, or 90
- Color temperatures: Amber, Amber/PC, 2700K, 3000K, 3500K, 4000K, 5000K
- Surge Protection: 20KA supplied as standard.

CONSTRUCTION

- Extruded Aluminum
- Internal cooling fins
- Corrosion resistant external hardware
- One-piece silicone gasket ensures water tight seal for electronics compartment
- Two-piece silicone Micro Optic system ensures IP67 seal around each PCB

OPTIONS

- NEMA 7-Pin Receptacle (PE7). Only available when ordering NLS pole.
- PHOTO CELL (PC)
- DIMMING CONTROL (FSP-20) (FSP-40)
- MARINE GRADE FINISH (MGF)—A multi-step process creating 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.
- SHIELD (HSS)—House Side Shield is designed for full property line cut-off.
- ROTATED OPTICS (ROL) (ROR)

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.
 - Motion sensor mounted to access cover
 - FSIR-100 commissioning remote is required to change sensor settings. Please contact factory for ordering.
- 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.
- Controls Agnostic: Please contact factory for your preferred controls option. (nLight, NX, WaveLinx, Crestron, DMX/RDM, Synapse, Casambi, DALI II, Avi-On, or other control systems)

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.

OPTICS

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

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
- IP65/ IP67 Rated
- IK10 Rated

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/buy-american/>



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

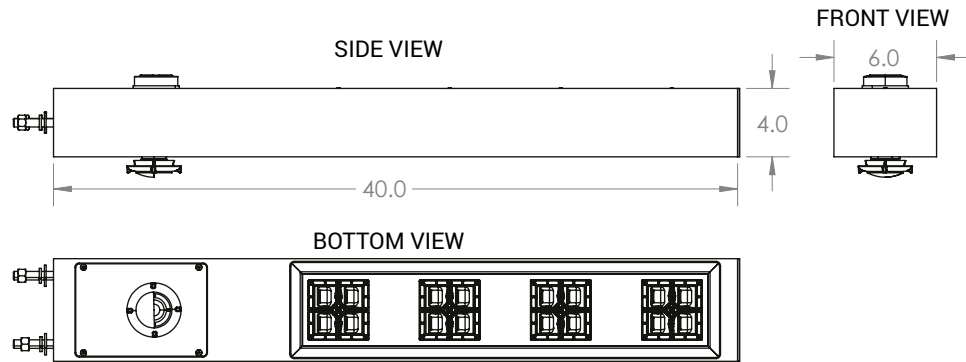


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PRODUCT SPECIFICATIONS

DIMENSIONS



Fixture Dimensions					EPA	
MODEL	WIDTH	DEPTH	LENGTH	WEIGHT	SGL	DBL
TRC-4	6"	4"	40"	28lbs	1.3	2.7

POLE EPA DATA

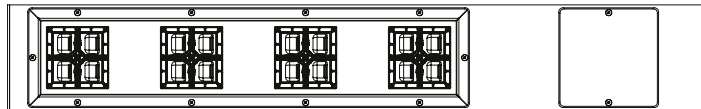
Pole EPA Data																		
Catalog Number	Shaft Length (ft)	Wall Thickness (in.)	Shaft Dim. (in.)	Base Plate (in.)	Bolt Circle (in.)	Anchor Bolts	80 Mph	Max Wt. (lbs)	90 Mph	Max Wt. (lbs)	100 Mph	Max Wt. (lbs)	110 Mph	Max Wt. (lbs)	115 Mph	Max Wt. (lbs)	120 Mph	Max Wt. (lbs)
TRAC-20-250-12BC-136	20'	0.250"	4" X 6"	12" SQ	12"	1" X 36"	20.0	500	15.7	393	11.5	288	8.3	208	6.8	170	5.9	148
							130 Mph	Max Wt. (lbs)	140 Mph	Max Wt. (lbs)	150 Mph	Max Wt. (lbs)	160 Mph	Max Wt. (lbs)	170 Mph	Max Wt. (lbs)	180 Mph	Max Wt. (lbs)
							3.8	95	2.4	60	1.2	-	0.3	-	-	-	-	-
TRAC-22-250-12BC-136	22'	0.250"	4" X 6"	12" SQ	12"	1" X 36"	16.8	420	11.7	293	8.2	205	5.5	138	4.3	108	3.6	90
							130 Mph	Max Wt. (lbs)	140 Mph	Max Wt. (lbs)	150 Mph	Max Wt. (lbs)	160 Mph	Max Wt. (lbs)	170 Mph	Max Wt. (lbs)	180 Mph	Max Wt. (lbs)
							2.0	-	0.4	-	-	-	-	-	-	-	-	-
TRAC-24-250-12BC-136	24'	0.250"	4" X 6"	12" SQ	12"	1" X 36"	13.4	335	9.2	230	5.8	145	3.7	93	2.7	-	2.0	-
							130 Mph	Max Wt. (lbs)	140 Mph	Max Wt. (lbs)	150 Mph	Max Wt. (lbs)	160 Mph	Max Wt. (lbs)	170 Mph	Max Wt. (lbs)	180 Mph	Max Wt. (lbs)
							0.4	-	-	-	-	-	-	-	-	-	-	-
TRAC-26-250-12BC-136	26'	0.250"	4" X 6"	12" SQ	12"	1" X 36"	5.9	148	4.4	110	2.9	73	1.0	60	-	-	-	-
							130 Mph	Max Wt. (lbs)	140 Mph	Max Wt. (lbs)	150 Mph	Max Wt. (lbs)	160 Mph	Max Wt. (lbs)	170 Mph	Max Wt. (lbs)	180 Mph	Max Wt. (lbs)
							2.0	-	0.9	-	-	-	-	-	-	-	-	-

PRODUCT SPECIFICATIONS

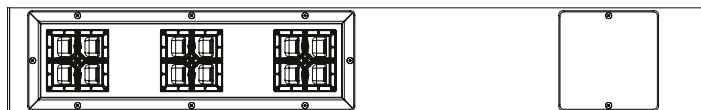
OPTICAL CONFIGURATIONS

Rotatable Optics (ROR) Rotated Right, (ROL) Rotated Left options available. Optics field and factory rotatable.

TRC-4 / 64L



TRC-4 / 48L



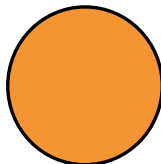
TRC-4 / 32L



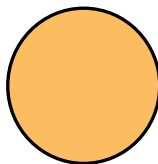
TRC-4 / 16L



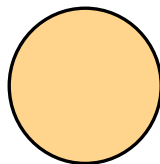
LED KELVIN RANGE



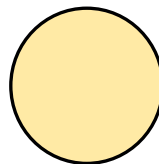
AMBER
585-600 nm



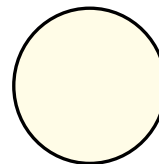
2700K 70 CRI



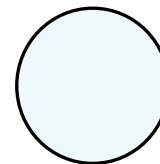
3000K 70 CRI



3500K 80 CRI



4000K 70 CRI



5000K 70 CRI

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

Lumen Maintenance Data							
Ambient Temperature	Drive Current	L90 Hours*	L70 Hours**	30,000 Hours*	50,000 Hours*	60,000 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			

PRODUCT SPECIFICATIONS

LUMEN CHARTS - STANDARD MICRO OPTICS

STANDARD SILICONE MICRO OPTICS - NON-SHIELDED - 16 LED									
Part Number	T2	LPW	T3	LPW	T4	LPW	T5	LPW	Wattage
TRC-4-16L-7-27K7	4056	113	4078	113	4078	113	4158	115	36
TRC-4-16L-7-27K8	3798	106	3819	106	3819	106	3894	108	36
TRC-4-16L-7-30K7	4385	122	4409	122	4409	122	4495	125	36
TRC-4-16L-7-30K8	4072	113	4095	114	4095	114	4174	116	36
TRC-4-16L-7-35K8	4072	113	4095	114	4095	114	4174	116	36
TRC-4-16L-7-40K7	4604	128	4630	129	4630	129	4720	131	36
TRC-4-16L-7-40K8	4262	118	4286	119	4286	119	4369	121	36
TRC-4-16L-7-50K7	4604	128	4630	129	4630	129	4720	131	36
TRC-4-16L-7-50K8	4262	118	4286	119	4286	119	4369	121	36
TRC-4-16L-1-27K7	5570	99	5602	100	5602	100	5711	102	56
TRC-4-16L-1-27K8	5216	93	5246	94	5246	94	5348	95	56
TRC-4-16L-1-30K7	6022	108	6056	108	6056	108	6174	110	56
TRC-4-16L-1-30K8	5593	100	5624	100	5624	100	5734	102	56
TRC-4-16L-1-35K8	5593	100	5624	100	5624	100	5734	102	56
TRC-4-16L-1-40K7	6323	113	6359	114	6359	114	6482	116	56
TRC-4-16L-1-40K8	5853	105	5886	105	5886	105	6000	107	56
TRC-4-16L-1-50K7	6323	113	6359	114	6359	114	6482	116	56
TRC-4-16L-1-50K8	5853	105	5886	105	5886	105	6000	107	56

STANDARD SILICONE MICRO OPTICS - NON-SHIELDED - 32 LED									
Part Number	T2	LPW	T3	LPW	T4	LPW	T5	LPW	Wattage
TRC-4-32L-7-27K7	8112	114	8157	115	8157	115	8315	117	71
TRC-4-32L-7-27K8	7596	107	7639	108	7639	108	7787	110	71
TRC-4-32L-7-30K7	8770	124	8819	124	8819	124	8990	127	71
TRC-4-32L-7-30K8	8145	115	8190	115	8190	115	8349	118	71
TRC-4-32L-7-35K8	8145	115	8190	115	8190	115	8349	118	71
TRC-4-32L-7-40K7	9208	130	9259	130	9259	130	9439	133	71
TRC-4-32L-7-40K8	8523	120	8570	121	8570	121	8737	123	71
TRC-4-32L-7-50K7	9208	130	9259	130	9259	130	9439	133	71
TRC-4-32L-7-50K8	8523	120	8570	121	8570	121	8737	123	71
TRC-4-32L-1-27K7	10912	103	10973	104	10973	104	11187	106	106
TRC-4-32L-1-27K8	10218	96	10276	97	10276	97	10476	99	106
TRC-4-32L-1-30K7	11797	111	11863	112	11863	112	12094	114	106
TRC-4-32L-1-30K8	10956	103	11017	104	11017	104	11231	106	106
TRC-4-32L-1-35K8	10956	103	11017	104	11017	104	11231	106	106
TRC-4-32L-1-40K7	12387	117	12456	118	12456	118	12698	120	106
TRC-4-32L-1-40K8	11466	108	11529	109	11529	109	11753	111	106
TRC-4-32L-1-50K7	12387	117	12456	118	12456	118	12698	120	106
TRC-4-32L-1-50K8	11466	108	11529	109	11529	109	11753	111	106

PRODUCT SPECIFICATIONS

LUMEN CHARTS - STANDARD MICRO OPTICS

STANDARD SILICONE MICRO OPTICS - NON-SHIELDED - 48 LED									
Part Number	T2	LPW	T3	LPW	T4	LPW	T5	LPW	Wattage
TRC-4-48L-7-27K7	12167	117	12236	118	12236	118	12473	120	104
TRC-4-48L-7-27K8	11394	110	11458	110	11458	110	11681	112	104
TRC-4-48L-7-30K7	13154	126	13228	127	13228	127	13485	130	104
TRC-4-48L-7-30K8	12216	117	12285	118	12285	118	12523	120	104
TRC-4-48L-7-35K8	12216	117	12285	118	12285	118	12523	120	104
TRC-4-48L-7-40K7	13812	133	13889	134	13889	134	14159	136	104
TRC-4-48L-7-40K8	12785	123	12856	124	12856	124	13106	126	104
TRC-4-48L-7-50K7	13812	133	13889	134	13889	134	14159	136	104
TRC-4-48L-7-50K8	12785	123	12856	124	12856	124	13106	126	104
TRC-4-48L-1-27K7	16058	103	16147	104	16147	104	16461	106	156
TRC-4-48L-1-27K8	15037	96	15121	97	15121	97	15415	99	156
TRC-4-48L-1-30K7	17360	111	17457	112	17457	112	17796	114	156
TRC-4-48L-1-30K8	16122	103	16212	104	16212	104	16527	106	156
TRC-4-48L-1-35K8	16122	103	16212	104	16212	104	16527	106	156
TRC-4-48L-1-40K7	18228	117	18330	118	18330	118	18686	120	156
TRC-4-48L-1-40K8	16872	108	16967	109	16967	109	17296	111	156
TRC-4-48L-1-50K7	18228	117	18330	118	18330	118	18686	120	156
TRC-4-48L-1-50K8	16872	108	16967	109	16967	109	17296	111	156

STANDARD SILICONE MICRO OPTICS - NON-SHIELDED - 64 LED									
Part Number	T2	LPW	T3	LPW	T4	LPW	T5	LPW	Wattage
TRC-4-64L-7-27K7	16223	119	16314	120	16314	120	16631	122	136
TRC-4-64L-7-27K8	15192	112	15277	112	15277	112	15574	115	136
TRC-4-64L-7-30K7	17539	129	17637	130	17637	130	17980	132	136
TRC-4-64L-7-30K8	16288	120	16379	120	16379	120	16698	123	136
TRC-4-64L-7-35K8	16288	120	16379	120	16379	120	16698	123	136
TRC-4-64L-7-40K7	18416	135	18519	136	18519	136	18879	139	136
TRC-4-64L-7-40K8	17046	125	17141	126	17141	126	17475	128	136
TRC-4-64L-7-50K7	18416	135	18519	136	18519	136	18879	139	136
TRC-4-64L-7-50K8	17046	125	17141	126	17141	126	17475	128	136
TRC-4-64L-1-27K7	20929	102	21046	103	21046	103	21455	105	205
TRC-4-64L-1-27K8	19599	96	19708	96	19708	96	20091	98	205
TRC-4-64L-1-30K7	22627	110	22753	111	22753	111	23195	113	205
TRC-4-64L-1-30K8	21013	103	21130	103	21130	103	21541	105	205
TRC-4-64L-1-35K8	21013	103	21130	103	21130	103	21541	105	205
TRC-4-64L-1-40K7	23758	116	23891	117	23891	117	24355	119	205
TRC-4-64L-1-40K8	21991	107	22114	108	22114	108	22543	110	205
TRC-4-64L-1-50K7	23758	116	23891	117	23891	117	24355	119	205
TRC-4-64L-1-50K8	21991	107	22114	108	22114	108	22543	110	205

PRODUCT SPECIFICATIONS

LUMEN CHARTS - STANDARD MICRO OPTICS

STANDARD SILICONE MICRO OPTICS - SHIELDED - 16 LED							
Part Number	T2 HSS	LPW	T3 HSS	LPW	T4 HSS	LPW	Wattage
TRC-4-16L-7-27K7-HSS	2985	83	2886	80	2792	78	36
TRC-4-16L-7-27K8-HSS	2795	78	2703	75	2614	73	36
TRC-4-16L-7-30K7-HSS	3227	90	3120	87	3018	84	36
TRC-4-16L-7-30K8-HSS	2997	83	2897	80	2803	78	36
TRC-4-16L-7-35K8-HSS	2997	83	2897	80	2803	78	36
TRC-4-16L-7-40K7-HSS	3389	94	3276	91	3169	88	36
TRC-4-16L-7-40K8-HSS	3137	87	3032	84	2933	81	36
TRC-4-16L-7-50K7-HSS	3389	94	3276	91	3169	88	36
TRC-4-16L-7-50K8-HSS	3137	87	3032	84	2933	81	36
TRC-4-16L-1-27K7-HSS	4100	73	3964	71	3834	68	56
TRC-4-16L-1-27K8-HSS	3840	69	3712	66	3590	64	56
TRC-4-16L-1-30K7-HSS	4433	79	4285	77	4145	74	56
TRC-4-16L-1-30K8-HSS	4117	74	3979	71	3849	69	56
TRC-4-16L-1-35K8-HSS	4117	74	3979	71	3849	69	56
TRC-4-16L-1-40K7-HSS	4654	83	4499	80	4353	78	56
TRC-4-16L-1-40K8-HSS	4308	77	4164	74	4029	72	56
TRC-4-16L-1-50K7-HSS	4654	83	4499	80	4353	78	56
TRC-4-16L-1-50K8-HSS	4308	77	4164	74	4029	72	56

STANDARD SILICONE MICRO OPTICS - SHIELDED - 32 LED							
Part Number	T2 HSS	LPW	T3 HSS	LPW	T4 HSS	LPW	Wattage
TRC-4-32L-7-27K7-HSS	5970	84	5771	81	5583	79	71
TRC-4-32L-7-27K8-HSS	5590	79	5404	76	5228	74	71
TRC-4-32L-7-30K7-HSS	6454	91	6239	88	6036	85	71
TRC-4-32L-7-30K8-HSS	5994	84	5794	82	5606	79	71
TRC-4-32L-7-35K8-HSS	5994	84	5794	82	5606	79	71
TRC-4-32L-7-40K7-HSS	6777	95	6551	92	6338	89	71
TRC-4-32L-7-40K8-HSS	6273	88	6064	85	5867	83	71
TRC-4-32L-7-50K7-HSS	6777	95	6551	92	6338	89	71
TRC-4-32L-7-50K8-HSS	6273	88	6064	85	5867	83	71
TRC-4-32L-1-27K7-HSS	8032	76	7764	73	7511	71	106
TRC-4-32L-1-27K8-HSS	7521	71	7271	69	7033	66	106
TRC-4-32L-1-30K7-HSS	8683	82	8394	79	8120	77	106
TRC-4-32L-1-30K8-HSS	8064	76	7795	74	7541	71	106
TRC-4-32L-1-35K8-HSS	8064	76	7795	74	7541	71	106
TRC-4-32L-1-40K7-HSS	9117	86	8813	83	8526	80	106
TRC-4-32L-1-40K8-HSS	8439	80	8157	77	7892	74	106
TRC-4-32L-1-50K7-HSS	9117	86	8813	83	8526	80	106
TRC-4-32L-1-50K8-HSS	8439	80	8157	77	7892	74	106

PRODUCT SPECIFICATIONS

LUMEN CHARTS - STANDARD MICRO OPTICS

STANDARD SILICONE MICRO OPTICS - SHIELDED - 48 LED							
Part Number	T2 HSS	LPW	T3 HSS	LPW	T4 HSS	LPW	Wattage
TRC-4-48L-7-27K7-HSS	8956	86	8657	83	8375	81	104
TRC-4-48L-7-27K8-HSS	8386	81	8107	78	7842	75	104
TRC-4-48L-7-30K7-HSS	9682	93	9359	90	9054	87	104
TRC-4-48L-7-30K8-HSS	8991	86	8692	84	8408	81	104
TRC-4-48L-7-35K8-HSS	8991	86	8692	84	8408	81	104
TRC-4-48L-7-40K7-HSS	10166	98	9827	94	9507	91	104
TRC-4-48L-7-40K8-HSS	9410	90	9096	87	8800	85	104
TRC-4-48L-7-50K7-HSS	10166	98	9827	94	9507	91	104
TRC-4-48L-7-50K8-HSS	9410	90	9096	87	8800	85	104
TRC-4-48L-1-27K7-HSS	11818	76	11425	73	11052	71	156
TRC-4-48L-1-27K8-HSS	11067	71	10699	69	10350	66	156
TRC-4-48L-1-30K7-HSS	12777	82	12352	79	11949	77	156
TRC-4-48L-1-30K8-HSS	11866	76	11471	74	11097	71	156
TRC-4-48L-1-35K8-HSS	11866	76	11471	74	11097	71	156
TRC-4-48L-1-40K7-HSS	13416	86	12969	83	12547	80	156
TRC-4-48L-1-40K8-HSS	12418	80	12004	77	11614	74	156
TRC-4-48L-1-50K7-HSS	13416	86	12969	83	12547	80	156
TRC-4-48L-1-50K8-HSS	12418	80	12004	77	11614	74	156

STANDARD SILICONE MICRO OPTICS - SHIELDED - 64 LED							
Part Number	T2 HSS	LPW	T3 HSS	LPW	T4 HSS	LPW	Wattage
TRC-4-64L-7-27K7-HSS	11940	88	11543	85	11167	82	136
TRC-4-64L-7-27K8-HSS	11182	82	10809	79	10457	77	136
TRC-4-64L-7-30K7-HSS	12909	95	12479	92	12073	89	136
TRC-4-64L-7-30K8-HSS	11988	88	11589	85	11212	82	136
TRC-4-64L-7-35K8-HSS	11988	88	11589	85	11212	82	136
TRC-4-64L-7-40K7-HSS	13554	100	13103	96	12676	93	136
TRC-4-64L-7-40K8-HSS	12546	92	12128	89	11733	86	136
TRC-4-64L-7-50K7-HSS	13554	100	13103	96	12676	93	136
TRC-4-64L-7-50K8-HSS	12546	92	12128	89	11733	86	136
TRC-4-64L-1-27K7-HSS	15404	75	14891	73	14406	70	205
TRC-4-64L-1-27K8-HSS	14425	70	13945	68	13491	66	205
TRC-4-64L-1-30K7-HSS	16653	81	16099	79	15575	76	205
TRC-4-64L-1-30K8-HSS	15465	75	14951	73	14464	71	205
TRC-4-64L-1-35K8-HSS	15465	75	14951	73	14464	71	205
TRC-4-64L-1-40K7-HSS	17486	85	16904	82	16353	80	205
TRC-4-64L-1-40K8-HSS	16185	79	15647	76	15137	74	205
TRC-4-64L-1-50K7-HSS	17486	85	16904	82	16353	80	205
TRC-4-64L-1-50K8-HSS	16185	79	15647	76	15137	74	205

PRODUCT SPECIFICATIONS

LUMEN CHARTS - PERFORMANCE MICRO OPTICS

PERFORMANCE SILICONE MICRO OPTICS - NON-SHIELDED - 16 LED					
Part Number	T4FTW	LPW	T5W	LPW	Wattage
TRC-4-16L-40-27K7	2049	57	2247	62	36
TRC-4-16L-40-27K8	1919	53	2104	58	36
TRC-4-16L-40-30K7	2216	62	2429	67	36
TRC-4-16L-40-30K8	2058	57	2256	63	36
TRC-4-16L-40-35K8	2058	57	2256	63	36
TRC-4-16L-40-40K7	2394	67	2625	73	36
TRC-4-16L-40-40K8	2216	62	2430	67	36
TRC-4-16L-40-50K7	2394	67	2625	73	36
TRC-4-16L-40-50K8	2216	62	2430	67	36
TRC-4-16L-53-27K7	2517	45	3140	56	56
TRC-4-16L-53-27K8	2357	42	2940	53	56
TRC-4-16L-53-30K7	2721	49	3395	61	56
TRC-4-16L-53-30K8	2527	45	3153	56	56
TRC-4-16L-53-35K8	2527	45	3153	56	56
TRC-4-16L-53-40K7	2940	53	3668	66	56
TRC-4-16L-53-40K8	2721	49	3395	61	56
TRC-4-16L-53-50K7	2940	53	3668	66	56
TRC-4-16L-53-50K8	2721	49	3395	61	56
TRC-4-16L-7-27K7	2958	82	3975	110	36
TRC-4-16L-7-27K8	2770	77	3722	103	36
TRC-4-16L-7-30K7	3199	89	4298	119	36
TRC-4-16L-7-30K8	2971	83	3991	111	36
TRC-4-16L-7-35K8	2971	83	3991	111	36
TRC-4-16L-7-40K7	3456	96	4644	129	36
TRC-4-16L-7-40K8	3199	89	4299	119	36
TRC-4-16L-7-50K7	3456	96	4644	129	36
TRC-4-16L-7-50K8	3199	89	4299	119	36
TRC-4-16L-1-27K7	4521	81	5489	98	56
TRC-4-16L-1-27K8	4234	76	5140	92	56
TRC-4-16L-1-30K7	4888	87	5934	106	56
TRC-4-16L-1-30K8	4539	81	5511	98	56
TRC-4-16L-1-35K8	4539	81	5511	98	56
TRC-4-16L-1-40K7	5282	94	6412	115	56
TRC-4-16L-1-40K8	4889	87	5935	106	56
TRC-4-16L-1-50K7	5282	94	6412	115	56
TRC-4-16L-1-50K8	4889	87	5935	106	56

PERFORMANCE SILICONE MICRO OPTICS - NON - SHIELDED - 32 LED					
Part Number	T4FTW	LPW	T5W	LPW	Wattage
TRC-4-32L-7-27K7	6564	92	7293	103	71
TRC-4-32L-7-27K8	6147	87	6830	96	71
TRC-4-32L-7-30K7	7097	100	7885	111	71
TRC-4-32L-7-30K8	6591	93	7323	103	71
TRC-4-32L-7-35K8	6591	93	7323	103	71
TRC-4-32L-7-40K7	7668	108	8520	120	71
TRC-4-32L-7-40K8	7098	100	7886	111	71
TRC-4-32L-7-50K7	7668	108	8520	120	71
TRC-4-32L-7-50K8	7098	100	7886	111	71
TRC-4-32L-1-27K7	9604	91	9737	92	106
TRC-4-32L-1-27K8	8994	85	9118	86	106
TRC-4-32L-1-30K7	10384	98	10528	99	106
TRC-4-32L-1-30K8	9643	91	9777	92	106
TRC-4-32L-1-35K8	9643	91	9777	92	106
TRC-4-32L-1-40K7	11220	106	11375	107	106
TRC-4-32L-1-40K8	10385	98	10529	99	106
TRC-4-32L-1-50K7	11220	106	11375	107	106
TRC-4-32L-1-50K8	10385	98	10529	99	106



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PRODUCT SPECIFICATIONS

LUMEN CHARTS - PERFORMANCE MICRO OPTICS

PERFORMANCE SILICONE MICRO OPTICS - NON - SHIELDED - 48 LED					
Part Number	T4FTW	LPW	T5W	LPW	Wattage
TRC-4-48L-7-27K7	9437	91	10950	105	104
TRC-4-48L-7-27K8	8837	85	10254	99	104
TRC-4-48L-7-30K7	10203	98	11839	114	104
TRC-4-48L-7-30K8	9475	91	10995	106	104
TRC-4-48L-7-35K8	9475	91	10995	106	104
TRC-4-48L-7-40K7	11024	106	12792	123	104
TRC-4-48L-7-40K8	10204	98	11840	114	104
TRC-4-48L-7-50K7	11024	106	12792	123	104
TRC-4-48L-7-50K8	10204	98	11840	114	104
TRC-4-48L-1-27K7	13938	89	14617	94	156
TRC-4-48L-1-27K8	13052	84	13688	88	156
TRC-4-48L-1-30K7	15070	97	15804	101	156
TRC-4-48L-1-30K8	13995	90	14677	94	156
TRC-4-48L-1-35K8	13995	90	14677	94	156
TRC-4-48L-1-40K7	16283	104	17076	109	156
TRC-4-48L-1-40K8	15072	97	15806	101	156
TRC-4-48L-1-50K7	16283	104	17076	109	156
TRC-4-48L-1-50K8	15072	97	15806	101	156

PERFORMANCE SILICONE MICRO OPTICS - NON-SHIELDED - 64 LED					
Part Number	T4FTW	LPW	T5W	LPW	Wattage
TRC-4-64L-35-27K7	7217	106	7858	116	68
TRC-4-64L-35-27K8	6758	99	7359	108	68
TRC-4-64L-35-30K7	7805	115	8497	125	68
TRC-4-64L-35-30K8	7248	107	7891	116	68
TRC-4-64L-35-35K8	7248	107	7891	116	68
TRC-4-64L-35-40K7	8432	124	9180	135	68
TRC-4-64L-35-40K8	7805	115	8497	125	68
TRC-4-64L-35-50K7	8432	124	9180	135	68
TRC-4-64L-35-50K8	7805	115	8497	125	68
TRC-4-64L-53-27K7	10051	98	11814	115	103
TRC-4-64L-53-27K8	9412	91	11063	107	103
TRC-4-64L-53-30K7	10869	106	12775	124	103
TRC-4-64L-53-30K8	10094	98	11864	115	103
TRC-4-64L-53-35K8	10094	98	11864	115	103
TRC-4-64L-53-40K7	11742	114	13802	134	103
TRC-4-64L-53-40K8	10869	106	12775	124	103
TRC-4-64L-53-50K7	11742	114	13802	134	103
TRC-4-64L-53-50K8	10869	106	12775	124	103
TRC-4-64L-7-27K7	12374	89	15706	113	139
TRC-4-64L-7-27K8	11588	83	14708	106	139
TRC-4-64L-7-30K7	13379	96	16981	122	139
TRC-4-64L-7-30K8	12425	89	15770	113	139
TRC-4-64L-7-35K8	12425	89	15770	113	139
TRC-4-64L-7-40K7	14456	104	18348	132	139
TRC-4-64L-7-40K8	13381	96	16983	122	139
TRC-4-64L-7-50K7	14456	104	18348	132	139
TRC-4-64L-7-50K8	13381	96	16983	122	139
TRC-4-64L-1-27K7	17776	87	20452	100	204
TRC-4-64L-1-27K8	16646	82	19152	94	204
TRC-4-64L-1-30K7	19219	94	22112	108	204
TRC-4-64L-1-30K8	17848	87	20535	101	204
TRC-4-64L-1-35K8	17848	87	20535	101	204
TRC-4-64L-1-40K7	20766	102	23892	117	204
TRC-4-64L-1-40K8	19221	94	22115	108	204
TRC-4-64L-1-50K7	20766	102	23892	117	204
TRC-4-64L-1-50K8	19221	94	22115	108	204

PRODUCT SPECIFICATIONS

BUG RATING CHARTS - STANDARD MICRO OPTICS

STANDARD SILICONE MICRO OPTICS - NON-SHIELDED - 16 LED				
Part Number	T2	T3	T4	T5
TRC-4-16L-7-27K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
TRC-4-16L-7-27K8	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
TRC-4-16L-7-30K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
TRC-4-16L-7-30K8	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
TRC-4-16L-7-35K8	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
TRC-4-16L-7-40K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
TRC-4-16L-7-40K8	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
TRC-4-16L-7-50K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
TRC-4-16L-7-50K8	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
TRC-4-16L-1-27K7	B1-U0-G1	B1-U0-G1	B2-U0-G2	B3-U0-G1
TRC-4-16L-1-27K8	B1-U0-G1	B1-U0-G1	B2-U0-G2	B3-U0-G1
TRC-4-16L-1-30K7	B1-U0-G1	B1-U0-G1	B2-U0-G2	B3-U0-G1
TRC-4-16L-1-30K8	B1-U0-G1	B1-U0-G1	B2-U0-G2	B3-U0-G1
TRC-4-16L-1-35K8	B1-U0-G1	B1-U0-G1	B2-U0-G2	B3-U0-G1
TRC-4-16L-1-40K7	B1-U0-G1	B1-U0-G1	B2-U0-G2	B3-U0-G1
TRC-4-16L-1-40K8	B1-U0-G1	B1-U0-G1	B2-U0-G2	B3-U0-G1
TRC-4-16L-1-50K7	B1-U0-G1	B1-U0-G1	B2-U0-G2	B3-U0-G1
TRC-4-16L-1-50K8	B1-U0-G1	B1-U0-G1	B2-U0-G2	B3-U0-G1

STANDARD SILICONE MICRO OPTICS - NON-SHIELDED - 32 LED				
Part Number	T2	T3	T4	T5
TRC-4-32L-7-27K7	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2
TRC-4-32L-7-27K8	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2
TRC-4-32L-7-30K7	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2
TRC-4-32L-7-30K8	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2
TRC-4-32L-7-35K8	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2
TRC-4-32L-7-40K7	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2
TRC-4-32L-7-40K8	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2
TRC-4-32L-7-50K7	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2
TRC-4-32L-7-50K8	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2
TRC-4-32L-1-27K7	B2-U0-G2	B2-U0-G2	B2-U0-G2	B4-U0-G2
TRC-4-32L-1-27K8	B2-U0-G2	B2-U0-G2	B2-U0-G2	B4-U0-G2
TRC-4-32L-1-30K7	B2-U0-G2	B2-U0-G2	B2-U0-G2	B4-U0-G2
TRC-4-32L-1-30K8	B2-U0-G2	B2-U0-G2	B2-U0-G2	B4-U0-G2
TRC-4-32L-1-35K8	B2-U0-G2	B2-U0-G2	B2-U0-G2	B4-U0-G2
TRC-4-32L-1-40K7	B2-U0-G2	B2-U0-G2	B2-U0-G2	B4-U0-G2
TRC-4-32L-1-40K8	B2-U0-G2	B2-U0-G2	B2-U0-G2	B4-U0-G2
TRC-4-32L-1-50K7	B2-U0-G2	B2-U0-G2	B2-U0-G2	B4-U0-G2
TRC-4-32L-1-50K8	B2-U0-G2	B2-U0-G2	B2-U0-G2	B4-U0-G2

PRODUCT SPECIFICATIONS

BUG RATING CHARTS - STANDARD MICRO OPTICS

STANDARD SILICONE MICRO OPTICS - NON-SHIELDED - 48 LED				
Part Number	T2	T3	T4	T5
TRC-4-48L-7-27K7	B2-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G2
TRC-4-48L-7-27K8	B2-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G2
TRC-4-48L-7-30K7	B2-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G2
TRC-4-48L-7-30K8	B2-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G2
TRC-4-48L-7-35K8	B2-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G2
TRC-4-48L-7-40K7	B2-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G2
TRC-4-48L-7-40K8	B2-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G2
TRC-4-48L-7-50K7	B2-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G2
TRC-4-48L-7-50K8	B2-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G2
TRC-4-48L-1-27K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
TRC-4-48L-1-27K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
TRC-4-48L-1-30K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
TRC-4-48L-1-30K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
TRC-4-48L-1-35K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
TRC-4-48L-1-40K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
TRC-4-48L-1-40K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
TRC-4-48L-1-50K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
TRC-4-48L-1-50K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2

STANDARD SILICONE MICRO OPTICS - NON-SHIELDED - 64 LED				
Part Number	T2	T3	T4	T5
TRC-4-64L-7-27K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
TRC-4-64L-7-27K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
TRC-4-64L-7-30K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
TRC-4-64L-7-30K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
TRC-4-64L-7-35K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
TRC-4-64L-7-40K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
TRC-4-64L-7-40K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
TRC-4-64L-7-50K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
TRC-4-64L-7-50K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
TRC-4-64L-1-27K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
TRC-4-64L-1-27K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
TRC-4-64L-1-30K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
TRC-4-64L-1-30K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
TRC-4-64L-1-35K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
TRC-4-64L-1-40K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
TRC-5-64L-1-40K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
TRC-4-64L-1-50K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
TRC-4-64L-1-50K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3

PRODUCT SPECIFICATIONS

BUG RATING CHARTS - STANDARD MICRO OPTICS

STANDARD SILICONE MICRO OPTICS - SHIELDED - 16 LED			
Part Number	T2 HSS	T3 HSS	T4 HSS
TRC-4-16L-7-27K7-HSS	B1-U0-G1	B0-U0-G1	B0-U0-G1
TRC-4-16L-7-27K8-HSS	B1-U0-G1	B0-U0-G1	B0-U0-G1
TRC-4-16L-7-30K7-HSS	B1-U0-G1	B0-U0-G1	B0-U0-G1
TRC-4-16L-7-30K8-HSS	B1-U0-G1	B0-U0-G1	B0-U0-G1
TRC-4-16L-7-35K8-HSS	B1-U0-G1	B0-U0-G1	B0-U0-G1
TRC-4-16L-7-40K7-HSS	B1-U0-G1	B0-U0-G1	B0-U0-G1
TRC-4-16L-7-40K8-HSS	B1-U0-G1	B0-U0-G1	B0-U0-G1
TRC-4-16L-7-50K7-HSS	B1-U0-G1	B0-U0-G1	B0-U0-G1
TRC-4-16L-7-50K8-HSS	B1-U0-G1	B0-U0-G1	B0-U0-G1
TRC-4-16L-1-27K7-HSS	B1-U0-G1	B0-U0-G1	B1-U0-G1
TRC-4-16L-1-27K8-HSS	B1-U0-G1	B0-U0-G1	B1-U0-G1
TRC-4-16L-1-30K7-HSS	B1-U0-G1	B0-U0-G1	B1-U0-G1
TRC-4-16L-1-30K8-HSS	B1-U0-G1	B0-U0-G1	B1-U0-G1
TRC-4-16L-1-35K8-HSS	B1-U0-G1	B0-U0-G1	B1-U0-G1
TRC-4-16L-1-40K7-HSS	B1-U0-G1	B1-U0-G1	B1-U0-G1
TRC-4-16L-1-40K8-HSS	B1-U0-G1	B1-U0-G1	B1-U0-G1
TRC-4-16L-1-50K7-HSS	B1-U0-G1	B1-U0-G1	B1-U0-G1
TRC-4-16L-1-50K8-HSS	B1-U0-G1	B1-U0-G1	B1-U0-G1

STANDARD SILICONE MICRO OPTICS - SHIELDED - 32 LED			
Part Number	T2 HSS	T3 HSS	T4 HSS
TRC-4-32L-7-27K7-HSS	B1-U0-G1	B1-U0-G2	B1-U0-G2
TRC-4-32L-7-27K8-HSS	B1-U0-G1	B1-U0-G2	B1-U0-G2
TRC-4-32L-7-30K7-HSS	B1-U0-G1	B1-U0-G2	B1-U0-G2
TRC-4-32L-7-30K8-HSS	B1-U0-G1	B1-U0-G2	B1-U0-G2
TRC-4-32L-7-35K8-HSS	B1-U0-G1	B1-U0-G2	B1-U0-G2
TRC-4-32L-7-40K7-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-32L-7-40K8-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-32L-7-50K7-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-32L-7-50K8-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-32L-1-27K7-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-32L-1-27K8-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-32L-1-30K7-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-32L-1-30K8-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-32L-1-35K8-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-32L-1-40K7-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-32L-1-40K8-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-32L-1-50K7-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-32L-1-50K8-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2

PRODUCT SPECIFICATIONS

BUG RATING CHARTS - STANDARD MICRO OPTICS

STANDARD SILICONE MICRO OPTICS - SHIELDED - 48 LED			
Part Number	T2 HSS	T3 HSS	T4 HSS
TRC-4-48L-7-27K7-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-48L-7-27K8-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-48L-7-30K7-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-48L-7-30K8-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-48L-7-35K8-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-48L-7-40K7-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-48L-7-40K8-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-48L-7-50K7-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-48L-7-50K8-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-48L-1-27K7-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-48L-1-27K8-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-48L-1-30K7-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-48L-1-30K8-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-48L-1-35K8-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-48L-1-40K7-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-48L-1-40K8-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-48L-1-50K7-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-48L-1-50K8-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2

STANDARD SILICONE MICRO OPTICS - SHIELDED - 64 LED			
Part Number	T2 HSS	T3 HSS	T4 HSS
TRC-4-64L-7-27K7-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-64L-7-27K8-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-64L-7-30K7-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-64L-7-30K8-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-64L-7-35K8-HSS	B1-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-64L-7-40K7-HSS	B2-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-64L-7-40K8-HSS	B2-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-64L-7-50K7-HSS	B2-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-64L-7-50K8-HSS	B2-U0-G2	B1-U0-G2	B1-U0-G2
TRC-4-64L-1-27K7-HSS	B2-U0-G2	B1-U0-G2	B1-U0-G3
TRC-4-64L-1-27K8-HSS	B2-U0-G2	B1-U0-G2	B1-U0-G3
TRC-4-64L-1-30K7-HSS	B2-U0-G2	B1-U0-G2	B1-U0-G3
TRC-4-64L-1-30K8-HSS	B2-U0-G2	B1-U0-G2	B1-U0-G3
TRC-4-64L-1-35K8-HSS	B2-U0-G2	B1-U0-G2	B1-U0-G3
TRC-4-64L-1-40K7-HSS	B2-U0-G2	B1-U0-G3	B1-U0-G3
TRC-4-64L-1-40K8-HSS	B2-U0-G2	B1-U0-G3	B1-U0-G3
TRC-4-64L-1-50K7-HSS	B2-U0-G2	B1-U0-G3	B1-U0-G3
TRC-4-64L-1-50K8-HSS	B2-U0-G2	B1-U0-G3	B1-U0-G3

PRODUCT SPECIFICATIONS

BUG RATING CHARTS - PERFORMANCE MICRO OPTICS

PERFORMANCE SILICONE MICRO OPTICS - NON-SHIELDED - 16 LED		
Part Number	T4FTW	T5W
TRC-4-16L-40-27K7	B1-U0-G1	B2-U0-G1
TRC-4-16L-40-27K8	B1-U0-G1	B2-U0-G1
TRC-4-16L-40-30K7	B1-U0-G1	B2-U0-G1
TRC-4-16L-40-30K8	B1-U0-G1	B2-U0-G1
TRC-4-16L-40-35K8	B1-U0-G1	B2-U0-G1
TRC-4-16L-40-40K7	B1-U0-G1	B2-U0-G1
TRC-4-16L-40-40K8	B1-U0-G1	B2-U0-G1
TRC-4-16L-40-50K7	B1-U0-G1	B2-U0-G1
TRC-4-16L-40-50K8	B1-U0-G1	B2-U0-G1
TRC-4-16L-53-27K7	B1-U0-G1	B2-U0-G1
TRC-4-16L-53-27K8	B1-U0-G1	B2-U0-G1
TRC-4-16L-53-30K7	B1-U0-G1	B3-U0-G1
TRC-4-16L-53-30K8	B1-U0-G1	B3-U0-G1
TRC-4-16L-53-35K8	B1-U0-G1	B3-U0-G1
TRC-4-16L-53-40K7	B1-U0-G1	B3-U0-G1
TRC-4-16L-53-40K8	B1-U0-G1	B3-U0-G1
TRC-4-16L-53-50K7	B1-U0-G1	B3-U0-G1
TRC-4-16L-53-50K8	B1-U0-G1	B3-U0-G1
TRC-4-16L-7-27K7	B1-U0-G1	B3-U0-G1
TRC-4-16L-7-27K8	B1-U0-G1	B3-U0-G1
TRC-4-16L-7-30K7	B1-U0-G1	B3-U0-G1
TRC-4-16L-7-30K8	B1-U0-G1	B3-U0-G1
TRC-4-16L-7-35K8	B1-U0-G1	B3-U0-G1
TRC-4-16L-7-40K7	B1-U0-G1	B3-U0-G1
TRC-4-16L-7-40K8	B1-U0-G1	B3-U0-G1
TRC-4-16L-7-50K7	B1-U0-G1	B3-U0-G1
TRC-4-16L-7-50K8	B1-U0-G1	B3-U0-G1
TRC-4-16L-1-27K7	B1-U0-G2	B3-U0-G1
TRC-4-16L-1-27K8	B1-U0-G2	B3-U0-G1
TRC-4-16L-1-30K7	B1-U0-G2	B3-U0-G2
TRC-4-16L-1-30K8	B1-U0-G2	B3-U0-G2
TRC-4-16L-1-35K8	B1-U0-G2	B3-U0-G2
TRC-4-16L-1-40K7	B1-U0-G2	B3-U0-G2
TRC-4-16L-1-40K8	B1-U0-G2	B3-U0-G2
TRC-4-16L-1-50K7	B1-U0-G2	B3-U0-G2
TRC-4-16L-1-50K8	B1-U0-G2	B3-U0-G2

PERFORMANCE SILICONE MICRO OPTICS - NON-SHIELDED - 32 LED		
Part Number	T4FTW	T5W
TRC-4-32L-7-27K7	B1-U0-G1	B3-U0-G1
TRC-4-32L-7-27K8	B1-U0-G1	B3-U0-G1
TRC-4-32L-7-30K7	B1-U0-G1	B3-U0-G1
TRC-4-32L-7-30K8	B1-U0-G1	B3-U0-G1
TRC-4-32L-7-35K8	B1-U0-G1	B3-U0-G1
TRC-4-32L-7-40K7	B1-U0-G1	B3-U0-G1
TRC-4-32L-7-40K8	B1-U0-G1	B3-U0-G1
TRC-4-32L-7-50K7	B1-U0-G1	B3-U0-G1
TRC-4-32L-7-50K8	B1-U0-G1	B3-U0-G1
TRC-4-32L-1-27K7	B1-U0-G2	B3-U0-G1
TRC-4-32L-1-27K8	B1-U0-G2	B3-U0-G1
TRC-4-32L-1-30K7	B1-U0-G2	B3-U0-G2
TRC-4-32L-1-30K8	B1-U0-G2	B3-U0-G2
TRC-4-32L-1-35K8	B1-U0-G2	B3-U0-G2
TRC-4-32L-1-40K7	B1-U0-G2	B3-U0-G2
TRC-4-32L-1-40K8	B1-U0-G2	B3-U0-G2
TRC-4-32L-1-50K7	B1-U0-G2	B3-U0-G2
TRC-4-32L-1-50K8	B1-U0-G2	B3-U0-G2

PRODUCT SPECIFICATIONS

BUG RATING CHARTS - PERFORMANCE MICRO OPTICS

PERFORMANCE SILICONE MICRO OPTICS - NON-SHIELDED - 48 LED		
Part Number	T4FTW	T5W
TRC-4-48L-7-27K7	B2-U0-G3	B4-U0-G2
TRC-4-48L-7-27K8	B2-U0-G3	B4-U0-G2
TRC-4-48L-7-30K7	B2-U0-G3	B4-U0-G2
TRC-4-48L-7-30K8	B2-U0-G3	B4-U0-G2
TRC-4-48L-7-35K8	B2-U0-G3	B4-U0-G2
TRC-4-48L-7-40K7	B2-U0-G3	B4-U0-G2
TRC-4-48L-7-40K8	B2-U0-G3	B4-U0-G2
TRC-4-48L-7-50K7	B2-U0-G3	B4-U0-G2
TRC-4-48L-7-50K8	B2-U0-G3	B4-U0-G2
TRC-4-48L-1-27K7	B2-U0-G3	B4-U0-G3
TRC-4-48L-1-27K8	B2-U0-G3	B4-U0-G3
TRC-4-48L-1-30K7	B3-U0-G3	B4-U0-G3
TRC-4-48L-1-30K8	B3-U0-G3	B4-U0-G3
TRC-4-48L-1-35K8	B3-U0-G3	B4-U0-G3
TRC-4-48L-1-40K7	B3-U0-G3	B4-U0-G3
TRC-4-48L-1-40K8	B3-U0-G3	B4-U0-G3
TRC-4-48L-1-50K7	B3-U0-G3	B4-U0-G3
TRC-4-48L-1-50K8	B3-U0-G3	B4-U0-G3

PERFORMANCE SILICONE MICRO OPTICS - NON-SHIELDED - 64 LED		
Part Number	T4FTW	T5W
TRC-4-64L-35-27K7	B1-U0-G2	B3-U0-G2
TRC-4-64L-35-27K8	B1-U0-G2	B3-U0-G2
TRC-4-64L-35-30K7	B2-U0-G2	B3-U0-G2
TRC-4-64L-35-30K8	B1-U0-G2	B3-U0-G2
TRC-4-64L-35-35K8	B1-U0-G2	B3-U0-G2
TRC-4-64L-35-40K7	B2-U0-G3	B4-U0-G2
TRC-4-64L-35-40K8	B2-U0-G2	B3-U0-G2
TRC-4-64L-35-50K7	B2-U0-G3	B4-U0-G2
TRC-4-64L-35-50K8	B2-U0-G2	B3-U0-G2
TRC-4-64L-53-27K7	B2-U0-G3	B4-U0-G2
TRC-4-64L-53-27K8	B2-U0-G3	B4-U0-G2
TRC-4-64L-53-30K7	B2-U0-G3	B4-U0-G2
TRC-4-64L-53-30K8	B2-U0-G3	B4-U0-G2
TRC-4-64L-53-35K8	B2-U0-G3	B4-U0-G2
TRC-4-64L-53-40K7	B2-U0-G3	B4-U0-G3
TRC-4-64L-53-40K8	B2-U0-G3	B4-U0-G2
TRC-4-64L-53-50K7	B2-U0-G3	B4-U0-G3
TRC-4-64L-53-50K8	B2-U0-G3	B4-U0-G2
TRC-4-64L-7-27K7	B2-U0-G3	B4-U0-G3
TRC-4-64L-7-27K8	B2-U0-G3	B4-U0-G3
TRC-4-64L-7-30K7	B2-U0-G3	B4-U0-G3
TRC-4-64L-7-30K8	B2-U0-G3	B4-U0-G3
TRC-4-64L-7-35K8	B2-U0-G3	B4-U0-G3
TRC-4-64L-7-40K7	B2-U0-G3	B5-U0-G3
TRC-4-64L-7-40K8	B2-U0-G3	B5-U0-G3
TRC-4-64L-7-50K7	B2-U0-G3	B5-U0-G3
TRC-4-64L-7-50K8	B2-U0-G3	B5-U0-G3
TRC-4-64L-1-27K7	B2-U0-G3	B5-U0-G3
TRC-4-64L-1-27K8	B2-U0-G3	B5-U0-G3
TRC-4-64L-1-30K7	B3-U0-G4	B5-U0-G3
TRC-4-64L-1-30K8	B3-U0-G4	B5-U0-G3
TRC-4-64L-1-35K8	B3-U0-G4	B5-U0-G3
TRC-4-64L-1-40K7	B3-U0-G4	B5-U0-G3
TRC-4-64L-1-40K8	B3-U0-G4	B5-U0-G3
TRC-4-64L-1-50K7	B3-U0-G4	B5-U0-G3
TRC-4-64L-1-50K8	B3-U0-G4	B5-U0-G3

PRODUCT SPECIFICATIONS

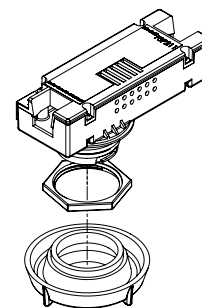
CONTROL OPTIONS

- 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.

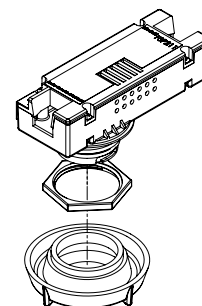
FSP-211



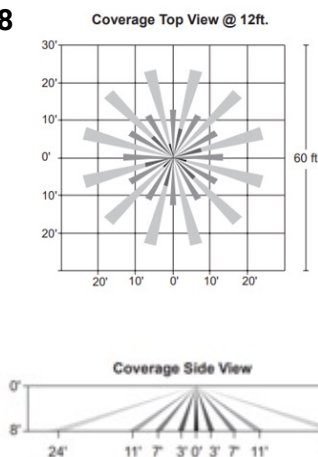
FSP-221 WITH MOTION SENSOR (FSP-HV-XX)

- 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.

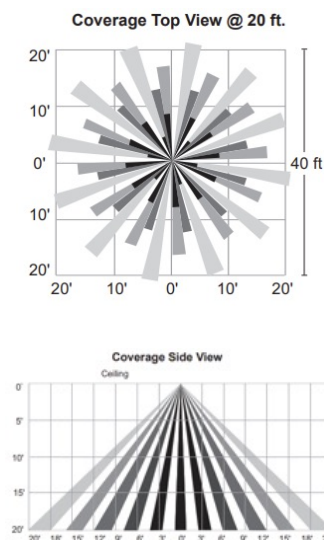
FSP-221



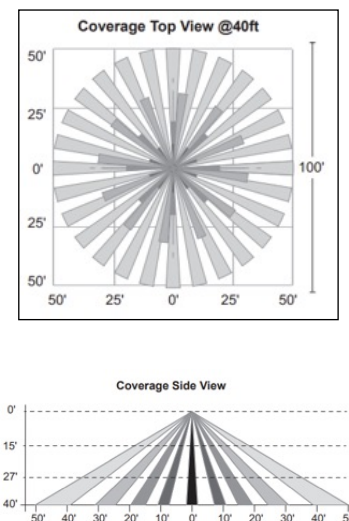
FSP-8



FSP-20



FSP-40



PRODUCT SPECIFICATIONS

TRAC POLE

RECTANGULAR ALUMINUM POLE

SHAFT

Rectangular Aluminum Pole (RAP) shaft (.250 Wall) is 6061 T6 Extruded Aluminum, 4 X 6 inch to provide a seamless transition into the Trac fixture. Poles have ground lug welded inside hand-hole opposite side of the pole extrusion. Pole Extrusion is conjoined to Anchor Base by welding internal and external to pole shaft. For custom configuration consult Factory.

ANCHOR BOLTS

All anchor bolts are fully hot dipped galvanized and come with two galvanized nuts and washers per bolt. Anchor bolts are not included for Custom Bolt Circle. Anchor Bolts are "J" style, with a 4" hook at the end for added strength. 1" Anchor Bolts are 1" diameter x 36" long with a 4" long "J" hook.

ANCHOR BASE

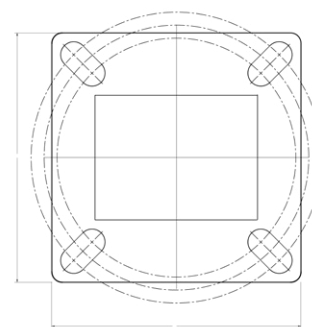
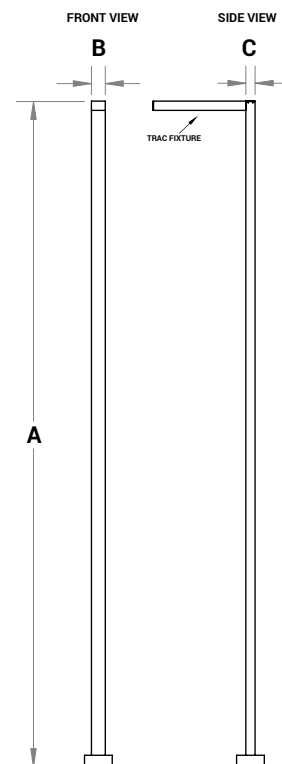
Base plates are machined from 6061 Aluminum, 12" square, 1" thick with 1" anchor bolts.

HAND HOLE COVER AND POLE CAP

All poles come with removable machined aluminum pole cap. All poles caps are powder coated to match the pole. All base covers are made of aluminum and powder coated to match the pole. Hand Hole is constructed of 3"x 5" rectangular aluminum tubing which is welded to pole shaft for added strength. Hand Hole covers are provided with internal bridge support and also powder coated to match pole finish.

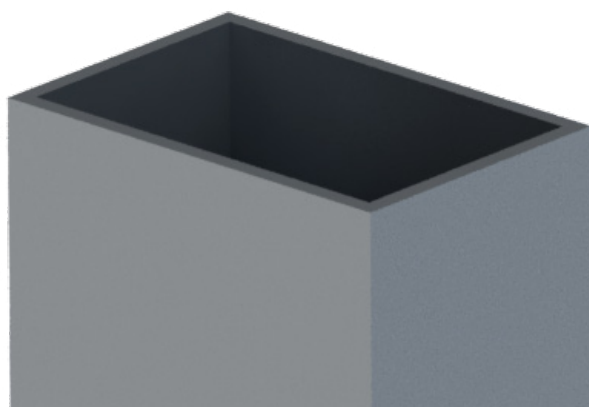
FINISH

All poles have minimum 3 to 5 mils powder coat finish. All poles are sandblasted prior to powder coat application.



12" Base
*Consult Factory for Bolt Circle Template

RECTANGULAR ALUMINUM POLE DETAIL



POLE DIMENSIONS	
A	20-26 ft. or Custom Height
B	6 in.
C	4 in.

*Anchor Bolts are NOT included with Custom Bolt Circle.

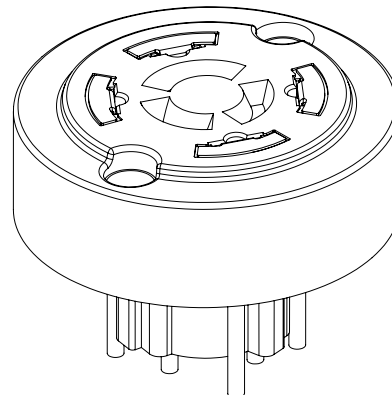
*Do NOT pour concrete referencing this drawing. Consult Factory.

*Must Specify 4-Bolt Pattern.

PRODUCT SPECIFICATIONS

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.



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

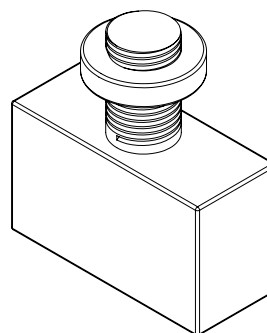
3-5 mil Zinc Rich Super Durable Polyester Primer

Prepared Casting

Chemically washed in multi Step 5 stage cleaning process

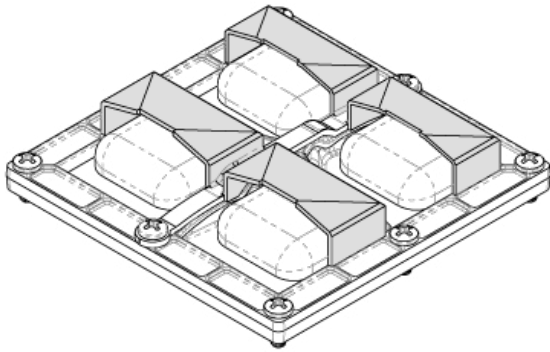
BUTTON PHOTOCELL

Photo Cell for dusk to dawn operation.

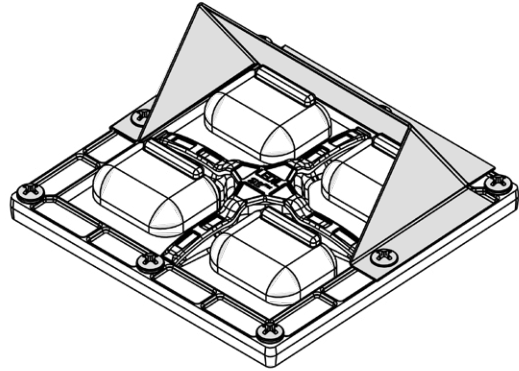


PRODUCT SPECIFICATIONS

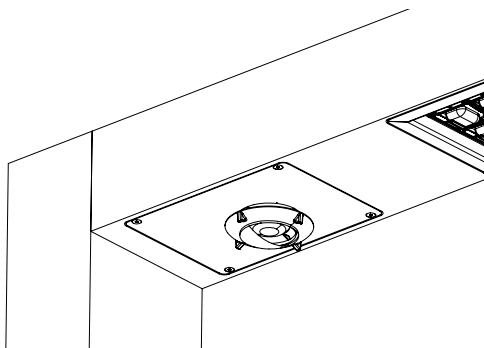
HOUSE SIDE SHIELD



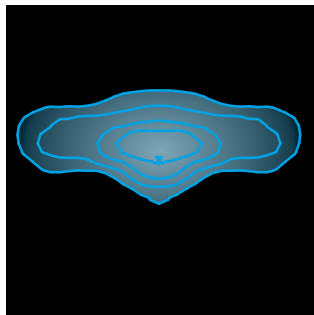
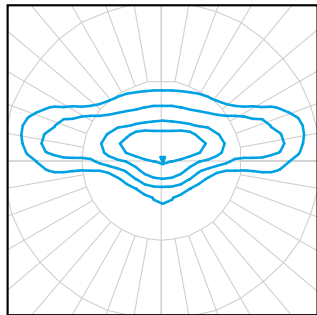
AUTOMOTIVE HOUSE SIDE SHIELD



MOTION SENSOR PLACEMENT

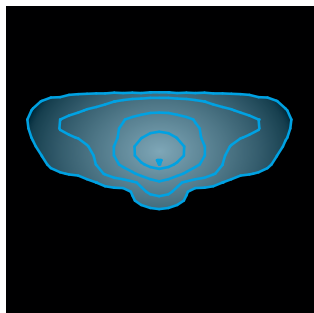
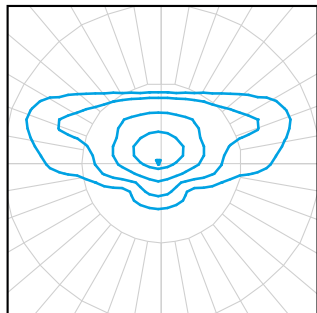


IES DISTRIBUTIONS



T2 OPTIC

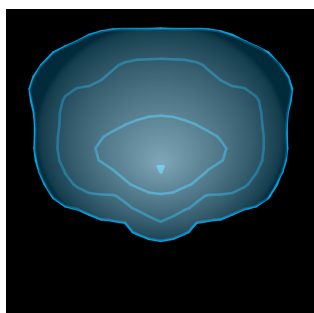
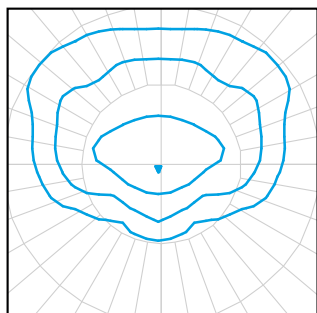
The Type II distribution is used for narrow pathways and trails, narrow entrances of shopping centers, parking lots and office complex's.



T3 OPTIC

The type III distribution is meant for roadway lighting, general parking areas and other areas where a larger area of lighting is required. Type III lighting needs to be placed to the side of the area, allowing the light to project outward and fill the area. This produces a filling light flow.

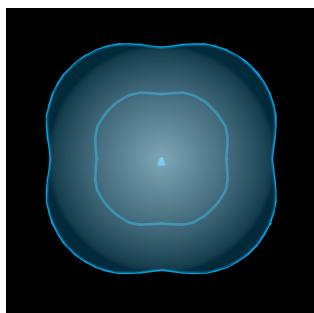
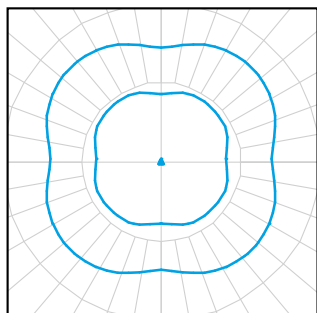
Type III light distributions have a preferred lateral width of 40 degrees. This distribution is intended for luminaires mounted at or near the side of medium width roadways or areas, where the width of the roadway or area does not exceed 2.75 times the mounting height.



T4 OPTIC

The type IV distribution produces a semicircular light meant for mounting on the sides of buildings and walls. It's best for illuminating the perimeter of parking areas and businesses. The intensity of the Type IV lighting has the same intensity at angles from 90 degrees to 270 degrees.

Type IV light distributions have a preferred lateral width of 60 degrees. This distribution is intended for side-of-road mounting and is generally used on wide roadways where the roadway width does not exceed 3.7 times the mounting height.



T5 OPTIC - SYMMETRICAL

Type V produces a symmetrical distribution that has the same intensity at all angles. This distribution has a uniform symmetry of candlepower that is essentially the same at all lateral angles. It is meant for large, commercial parking lot lighting as well as areas where sufficient, evenly distributed light is necessary.

SILICONE OPTICS

NLS Lighting Silicone Micro Optical System technology takes quality and performance to the highest level. Vandal resistant, superior clarity—Micro Optics have become the best and lasting solution in the industry.

BENEFITS

- Produces superior 96% clarity
- Heat resistant to 150° C, 50% higher than acrylic
- Ecologically friendly—no glare
- Vandal-resistant
- Does not brittle, crack, or yellow over time

