



LED Wattage Chart

DRIVE CURRENT	16L
400 milliamps	21W (2412-2596 Lumens)
530 milliamps	28W (3508-3776 Lumens)
700 milliamps	36W (4385-4720 Lumens)
1050 milliamps	56W (6022-6482 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 LED Configuration
- 21-56 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-1 ORDERING GUIDE

Cat#	Light Dist.	# of LEDs	Drive Current	Color Temp./CRI	Voltage
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Trac 1
(TRC-1)**Standard Silicone Micro Optics**Type 2
(T2)Type 3
(T3)Type 4
(T4)Type 5
(T5)**Performance Silicone Micro Optics**Type 4 Forward Throw Wide
(For Perimeters)
(T4FTW)*Type 5 Wide
(T5W)*(for Improved Uniformity
& Wider Pole Spacing)**Standard Configurations**16 LED
(16L)400 mA
(40)530 mA
(53)700 mA
(7)1050 mA
(1)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) ²4000K, 70 CRI
(40K7) ²4000K, 80 CRI
(40K8) ²5000K, 70 CRI
(50K7) ²5000K, 80 CRI
(50K8) ²120V-277V
(UNV)347V-480V
(HV)

* 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)

Config.	Color	Controls Options	Options	Pole Height	Pole Options
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Single
(SGL)Bronze Textured
(BRZ)Button Type Photocell
(PC) ⁴Marine Grade Finish
(MGF)8'
(8)
GFI Kit
(GFI20A) ^{15, 16, 17}
20 Amp Weather Proof
ReceptacleDouble
(D-180)White Textured
(WHT)Nema 7-Pin Receptacle
(PE7) ³House Side Shield
(HSS)10'
(10)
GFI Provision Only
(PROV) ^{16, 17}Smooth White Gloss
(SWT)Photocell + Receptacle
(PCR) ³Automotive House Side
Shield
(AHS)12'
(12)
1 / 2" Coupling
(COUP) ¹⁷
*Specify LocationSilver Metallic
(SVR)Receptacle + Shorting Cap
(PER) ³Rotated Optic Left
(ROL)No Pole
(NP)MPF
(MPF) ¹⁴Black Textured
(BLK)**FSP-211 w/Motion Sensor/Photocell
(120/277VAC, 230-240VAC)**Rotated Optic Right
(ROR)Aluminum Pole
.250 Wall comes with
12" Anchor Base,
1" Thick, 1" Anchor BoltsVibration Dampener
(VD)Smooth Black Gloss
(SBK)8' Heights
(FSP211-8) ^{4, 10}Buy American Act
(BAA) ⁸Extra Hand Hole
(XHH) ¹⁷
*Specify LocationGraphite Textured
(GPH)9'-20' Heights
(FSP211-20) ^{4, 10}Trade Agreement Act
(TAA) ⁸MPF Triple
(TRI) ¹⁴Grey Textured
(GRY)21'-40' Heights
(FSP211-40) ^{4, 10}Build America
Buy American
(BABA) ⁸**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, Av-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. MPF Mid Pole Fixture. Consult Factory
15. Standard weatherproof cover comes standard with option. For lockable cover requests, please contact factory
16. 120V Only
17. Specify the Height (in feet) from ground level and degree orientation from wire access slot.

Green Textured
(GRN)8' Heights
(FSP-HV-8) ¹¹Hunter Green Textured
(HGN)9'-20' Heights
(FSP-HV-20) ¹¹Custom
(CS)21'-40' Heights
(FSP-HV-40) ¹¹Custom Controls Integration
(CCI) ⁶FSP Remote
(FSIR) ¹²
NLS
LIGHTING

 701 Kingshill Place, Carson, CA 90746
Call Us Today (310) 341-2037

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.

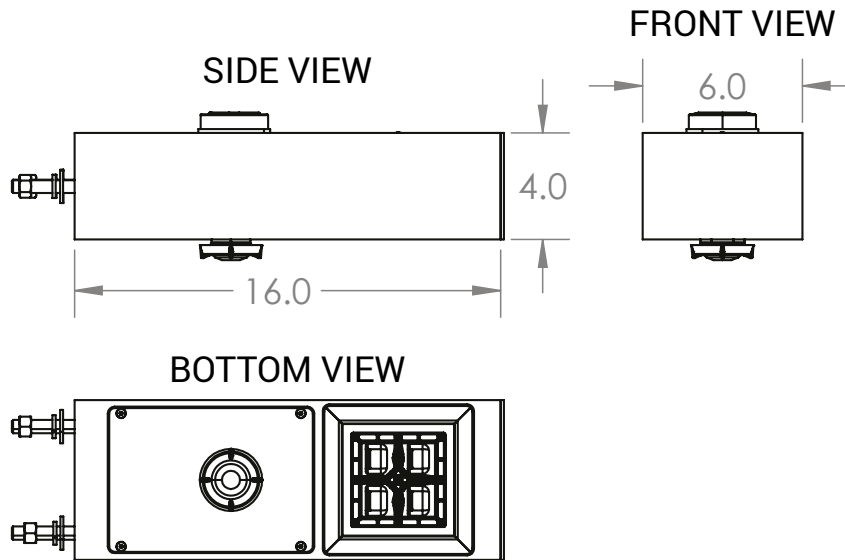


701 Kingshill Place, Carson, CA 90746
Call Us Today (310) 341-2037

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PRODUCT SPECIFICATIONS

DIMENSIONS



Fixture Dimensions					EPA	
MODEL	WIDTH	DEPTH	LENGTH	WEIGHT	SGL	DBL
TRAC - 1	6"	4"	16"	11lbs	0.5	1.1

POLE EPA DATA

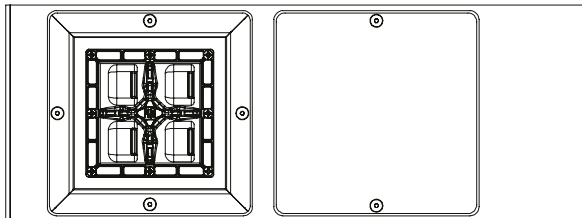
Pole EPA Data																		
Catalog Number	Shaft Length (ft)	Wall Thickness (in.)	Shaft Dim. (in.)	Base Plate (in.)	Bolt Circle (in.)	Anchor Bolts	80 Mph	Max Wt. (lbs)	90 Mph	Max Wt. (lbs)	100 Mph	Max Wt. (lbs)	110 Mph	Max Wt. (lbs)	115 Mph	Max Wt. (lbs)	120 Mph	Max Wt. (lbs)
TRAC-8-250-12BC-136	8'	0.250"	4" X 6"	12" SQ	12"	1" X 36"	20.0	500	20.0	500	20.0	500	20.0	500	20.0	500	20.0	500
							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)
							20.0	500	20.0	500	16.8	420	15.2	380	13.8	345	12.0	300
TRAC-10-250-12BC-136	10'	0.250"	4" X 6"	12" SQ	12"	1" X 36"	20.0	500	20.0	500	20.0	500	20.0	500	20.0	500	20.0	500
							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)
							18.0	450	14.9	373	12.6	315	10.7	268	9.2	230	7.6	190
TRAC-12-250-12BC-136	12'	0.250"	4" X 6"	12" SQ	12"	1" X 36"	20.0	500	20.0	500	20.0	500	20.0	500	18.9	473	17.1	428
							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)
							14.0	350	11.5	288	9.4	235	7.7	193	6.5	163	5.3	133

PRODUCT SPECIFICATIONS

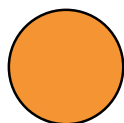
OPTICAL CONFIGURATIONS

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

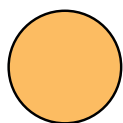
TRC-1 / 16L



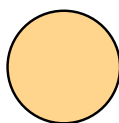
LED KELVIN RANGE



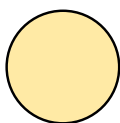
AMBER
585-600 nm



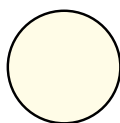
2700K 70 CRI



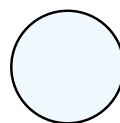
3000K 70 CRI



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-1-16L-40-27K7	2478	118	2492	119	2491	119	2540	121	21
TRC-1-16L-40-27K8	2321	111	2334	111	2333	111	2379	113	21
TRC-1-16L-40-30K7	2679	128	2694	128	2693	128	2746	131	21
TRC-1-16L-40-30K8	2488	118	2502	119	2501	119	2550	121	21
TRC-1-16L-40-35K8	2488	118	2502	119	2501	119	2550	121	21
TRC-1-16L-40-40K7	2895	138	2911	139	2910	139	2967	141	21
TRC-1-16L-40-40K8	2680	128	2694	128	2694	128	2746	131	21
TRC-1-16L-40-50K7	2895	138	2911	139	2910	139	2967	141	21
TRC-1-16L-40-50K8	2680	128	2694	128	2694	128	2746	131	21
TRC-1-16L-53-27K7	3245	116	3262	117	3262	117	3326	119	28
TRC-1-16L-53-27K8	3039	109	3055	109	3055	109	3115	111	28
TRC-1-16L-53-30K7	3508	125	3527	126	3527	126	3596	128	28
TRC-1-16L-53-30K8	3258	116	3275	117	3275	117	3340	119	28
TRC-1-16L-53-35K8	3258	116	3275	117	3275	117	3340	119	28
TRC-1-16L-53-40K7	3683	132	3704	132	3704	132	3776	135	28
TRC-1-16L-53-40K8	3409	122	3428	122	3428	122	3495	125	28
TRC-1-16L-53-50K7	3683	132	3704	132	3704	132	3776	135	28
TRC-1-16L-53-50K8	3409	122	3428	122	3428	122	3495	125	28
TRC-1-16L-7-27K7	4056	113	4078	113	4078	113	4158	115	36
TRC-1-16L-7-27K8	3798	106	3819	106	3819	106	3894	108	36
TRC-1-16L-7-30K7	4385	122	4409	122	4409	122	4495	125	36
TRC-1-16L-7-30K8	4072	113	4095	114	4095	114	4174	116	36
TRC-1-16L-7-35K8	4072	113	4095	114	4095	114	4174	116	36
TRC-1-16L-7-40K7	4604	128	4630	129	4630	129	4720	131	36
TRC-1-16L-7-40K8	4262	118	4286	119	4286	119	4369	121	36
TRC-1-16L-7-50K7	4604	128	4630	129	4630	129	4720	131	36
TRC-1-16L-7-50K8	4262	118	4286	119	4286	119	4369	121	36
TRC-1-16L-1-27K7	5570	99	5602	100	5602	100	5711	102	56
TRC-1-16L-1-27K8	5216	93	5246	94	5246	94	5348	95	56
TRC-1-16L-1-30K7	6022	108	6056	108	6056	108	6174	110	56
TRC-1-16L-1-30K8	5593	100	5624	100	5624	100	5734	102	56
TRC-1-16L-1-35K8	5593	100	5624	100	5624	100	5734	102	56
TRC-1-16L-1-40K7	6323	113	6359	114	6359	114	6482	116	56
TRC-1-16L-1-40K8	5853	105	5886	105	5886	105	6000	107	56
TRC-1-16L-1-50K7	6323	113	6359	114	6359	114	6482	116	56
TRC-1-16L-1-50K8	5853	105	5886	105	5886	105	6000	107	56

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-1-16L-40-27K7-HSS	1642	78	1587	76	1535	73	21
TRC-1-16L-40-27K8-HSS	1537	73	1486	71	1438	68	21
TRC-1-16L-40-30K7-HSS	1775	85	1716	82	1660	79	21
TRC-1-16L-40-30K8-HSS	1648	78	1594	76	1542	73	21
TRC-1-16L-40-35K8-HSS	1648	78	1594	76	1542	73	21
TRC-1-16L-40-40K7-HSS	1864	89	1802	86	1743	83	21
TRC-1-16L-40-40K8-HSS	1725	82	1668	79	1613	77	21
TRC-1-16L-40-50K7-HSS	1864	89	1802	86	1743	83	21
TRC-1-16L-40-50K8-HSS	1725	82	1668	79	1613	77	21
TRC-1-16L-53-27K7-HSS	2388	85	2309	82	2234	80	28
TRC-1-16L-53-27K8-HSS	2236	80	2162	77	2092	75	28
TRC-1-16L-53-30K7-HSS	2582	92	2496	89	2415	86	28
TRC-1-16L-53-30K8-HSS	2398	86	2318	83	2243	80	28
TRC-1-16L-53-35K8-HSS	2398	86	2318	83	2243	80	28
TRC-1-16L-53-40K7-HSS	2711	97	2621	94	2535	91	28
TRC-1-16L-53-40K8-HSS	2509	90	2426	87	2346	84	28
TRC-1-16L-53-50K7-HSS	2711	97	2621	94	2535	91	28
TRC-1-16L-53-50K8-HSS	2509	90	2426	87	2346	84	28
TRC-1-16L-7-27K7-HSS	2985	83	2886	80	2792	78	36
TRC-1-16L-7-27K8-HSS	2795	78	2703	75	2614	73	36
TRC-1-16L-7-30K7-HSS	3227	90	3120	87	3018	84	36
TRC-1-16L-7-30K8-HSS	2997	83	2897	80	2803	78	36
TRC-1-16L-7-35K8-HSS	2997	83	2897	80	2803	78	36
TRC-1-16L-7-40K7-HSS	3389	94	3276	91	3169	88	36
TRC-1-16L-7-40K8-HSS	3137	87	3032	84	2933	81	36
TRC-1-16L-7-50K7-HSS	3389	94	3276	91	3169	88	36
TRC-1-16L-7-50K8-HSS	3137	87	3032	84	2933	81	36
TRC-1-16L-1-27K7-HSS	4100	73	3964	71	3834	68	56
TRC-1-16L-1-27K8-HSS	3840	69	3712	66	3590	64	56
TRC-1-16L-1-30K7-HSS	4433	79	4285	77	4145	74	56
TRC-1-16L-1-30K8-HSS	4117	74	3979	71	3849	69	56
TRC-1-16L-1-35K8-HSS	4117	74	3979	71	3849	69	56
TRC-1-16L-1-40K7-HSS	4654	83	4499	80	4353	78	56
TRC-1-16L-1-40K8-HSS	4308	77	4164	74	4029	72	56
TRC-1-16L-1-50K7-HSS	4654	83	4499	80	4353	78	56
TRC-1-16L-1-50K8-HSS	4308	77	4164	74	4029	72	56

PRODUCT SPECIFICATIONS

LUMEN CHARTS - PERFORMANCE MICRO OPTICS

PERFORMANCE SILICONE MICRO OPTICS - NON-SHIELDED - 16 LED					
Part Number	T4FTW	LPW	T5W	LPW	Wattage
TRC-1-16L-40-27K7	2085	99	2139	102	21
TRC-1-16L-40-27K8	1952	93	2003	95	21
TRC-1-16L-40-30K7	2255	107	2313	110	21
TRC-1-16L-40-30K8	2094	100	2148	102	21
TRC-1-16L-40-35K8	2094	100	2148	102	21
TRC-1-16L-40-40K7	2436	116	2499	119	21
TRC-1-16L-40-40K8	2255	107	2313	110	21
TRC-1-16L-40-50K7	2436	116	2499	119	21
TRC-1-16L-40-50K8	2255	107	2313	110	21
TRC-1-16L-53-27K7	2565	92	2996	107	28
TRC-1-16L-53-27K8	2402	86	2806	100	28
TRC-1-16L-53-30K7	2773	99	3239	116	28
TRC-1-16L-53-30K8	2575	92	3008	107	28
TRC-1-16L-53-35K8	2575	92	3008	107	28
TRC-1-16L-53-40K7	2996	107	3500	125	28
TRC-1-16L-53-40K8	2773	99	3240	116	28
TRC-1-16L-53-50K7	2996	107	3500	125	28
TRC-1-16L-53-50K8	2773	99	3240	116	28
TRC-1-16L-7-27K7	3020	84	3790	105	36
TRC-1-16L-7-27K8	2828	79	3549	99	36
TRC-1-16L-7-30K7	3265	91	4098	114	36
TRC-1-16L-7-30K8	3032	84	3806	106	36
TRC-1-16L-7-35K8	3032	84	3806	106	36
TRC-1-16L-7-40K7	3528	98	4428	123	36
TRC-1-16L-7-40K8	3266	91	4099	114	36
TRC-1-16L-7-50K7	3528	98	4428	123	36
TRC-1-16L-7-50K8	3266	91	4099	114	36
TRC-1-16L-1-27K7	4587	82	5205	93	56
TRC-1-16L-1-27K8	4295	77	4874	87	56
TRC-1-16L-1-30K7	4960	89	5628	101	56
TRC-1-16L-1-30K8	4606	82	5227	93	56
TRC-1-16L-1-35K8	4606	82	5227	93	56
TRC-1-16L-1-40K7	5359	96	6081	109	56
TRC-1-16L-1-40K8	4960	89	5629	101	56
TRC-1-16L-1-50K7	5359	96	6081	109	56
TRC-1-16L-1-50K8	4960	89	5629	101	56

PRODUCT SPECIFICATIONS

BUG RATING CHARTS - STANDARD MICRO OPTICS

STANDARD SILICONE MICRO OPTICS - NON - SHIELDED - 16 LED				
Part Number	T2	T3	T4	T5
TRC-1-16L-40-27K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
TRC-1-16L-40-27K8	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
TRC-1-16L-40-30K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
TRC-1-16L-40-30K8	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
TRC-1-16L-40-35K8	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
TRC-1-16L-40-40K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
TRC-1-16L-40-40K8	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
TRC-1-16L-40-50K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
TRC-1-16L-40-50K8	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
TRC-1-16L-53-27K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
TRC-1-16L-53-27K8	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
TRC-1-16L-53-30K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
TRC-1-16L-53-30K8	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
TRC-1-16L-53-35K8	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
TRC-1-16L-53-40K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
TRC-1-16L-53-40K8	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
TRC-1-16L-53-50K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
TRC-1-16L-53-50K8	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
TRC-1-16L-7-27K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
TRC-1-16L-7-27K8	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
TRC-1-16L-7-30K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
TRC-1-16L-7-30K8	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
TRC-1-16L-7-35K8	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
TRC-1-16L-7-40K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
TRC-1-16L-7-40K8	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
TRC-1-16L-7-50K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
TRC-1-16L-7-50K8	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
TRC-1-16L-1-27K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
TRC-1-16L-1-27K8	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
TRC-1-16L-1-30K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
TRC-1-16L-1-30K8	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
TRC-1-16L-1-35K8	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
TRC-1-16L-1-40K7	B1-U0-G1	B1-U0-G1	B1-U0-G2	B3-U0-G1
TRC-1-16L-1-40K8	B1-U0-G1	B1-U0-G1	B1-U0-G2	B3-U0-G1
TRC-1-16L-1-50K7	B1-U0-G1	B1-U0-G1	B1-U0-G2	B3-U0-G1
TRC-1-16L-1-50K8	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1

STANDARD SILICONE MICRO OPTICS - SHIELDED - 16 LED			
Part Number	T2 HSS	T3 HSS	T4 HSS
TRC-1-16L-40-27K7-HSS	B0-U0-G0	B0-U0-G0	B0-U0-G0
TRC-1-16L-40-27K8-HSS	B0-U0-G0	B0-U0-G0	B0-U0-G0
TRC-1-16L-40-30K7-HSS	B0-U0-G0	B0-U0-G0	B0-U0-G0
TRC-1-16L-40-30K8-HSS	B0-U0-G0	B0-U0-G0	B0-U0-G0
TRC-1-16L-40-35K8-HSS	B0-U0-G0	B0-U0-G0	B0-U0-G0
TRC-1-16L-40-40K7-HSS	B0-U0-G0	B0-U0-G0	B0-U0-G0
TRC-1-16L-40-40K8-HSS	B0-U0-G0	B0-U0-G0	B0-U0-G0
TRC-1-16L-40-50K7-HSS	B0-U0-G0	B0-U0-G0	B0-U0-G0
TRC-1-16L-40-50K8-HSS	B0-U0-G0	B0-U0-G0	B0-U0-G0
TRC-1-16L-53-27K7-HSS	B0-U0-G1	B0-U0-G1	B0-U0-G1
TRC-1-16L-53-27K8-HSS	B0-U0-G1	B0-U0-G1	B0-U0-G1
TRC-1-16L-53-30K7-HSS	B0-U0-G1	B0-U0-G1	B0-U0-G1
TRC-1-16L-53-30K8-HSS	B0-U0-G1	B0-U0-G1	B0-U0-G1
TRC-1-16L-53-35K8-HSS	B0-U0-G1	B0-U0-G1	B0-U0-G1
TRC-1-16L-53-40K7-HSS	B0-U0-G1	B0-U0-G1	B0-U0-G1
TRC-1-16L-53-40K8-HSS	B0-U0-G1	B0-U0-G1	B0-U0-G1
TRC-1-16L-53-50K7-HSS	B0-U0-G1	B0-U0-G1	B0-U0-G1
TRC-1-16L-53-50K8-HSS	B0-U0-G1	B0-U0-G1	B0-U0-G1
TRC-1-16L-7-27K7-HSS	B1-U0-G1	B0-U0-G1	B0-U0-G1
TRC-1-16L-7-27K8-HSS	B1-U0-G1	B0-U0-G1	B0-U0-G1
TRC-1-16L-7-30K7-HSS	B1-U0-G1	B0-U0-G1	B0-U0-G1
TRC-1-16L-7-30K8-HSS	B1-U0-G1	B0-U0-G1	B0-U0-G1
TRC-1-16L-7-35K8-HSS	B1-U0-G1	B0-U0-G1	B0-U0-G1
TRC-1-16L-7-40K7-HSS	B1-U0-G1	B0-U0-G1	B0-U0-G1
TRC-1-16L-7-40K8-HSS	B1-U0-G1	B0-U0-G1	B0-U0-G1
TRC-1-16L-7-50K7-HSS	B1-U0-G1	B0-U0-G1	B0-U0-G1
TRC-1-16L-7-50K8-HSS	B1-U0-G1	B0-U0-G1	B0-U0-G1
TRC-1-16L-1-27K7-HSS	B1-U0-G1	B1-U0-G1	B1-U0-G1
TRC-1-16L-1-27K8-HSS	B1-U0-G1	B1-U0-G1	B1-U0-G1
TRC-1-16L-1-30K7-HSS	B1-U0-G1	B1-U0-G1	B1-U0-G1
TRC-1-16L-1-30K8-HSS	B1-U0-G1	B1-U0-G1	B1-U0-G1
TRC-1-16L-1-35K8-HSS	B1-U0-G1	B1-U0-G1	B1-U0-G1
TRC-1-16L-1-40K7-HSS	B1-U0-G1	B1-U0-G1	B1-U0-G1
TRC-1-16L-1-40K8-HSS	B1-U0-G1	B1-U0-G1	B1-U0-G1
TRC-1-16L-1-50K7-HSS	B1-U0-G1	B1-U0-G1	B1-U0-G1
TRC-1-16L-1-50K8-HSS	B1-U0-G1	B1-U0-G1	B1-U0-G1

PRODUCT SPECIFICATIONS

BUG RATING CHARTS - PERFORMANCE MICRO OPTICS

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

PRODUCT SPECIFICATIONS

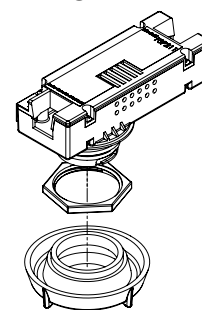
CONTROL OPTIONS

- 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.

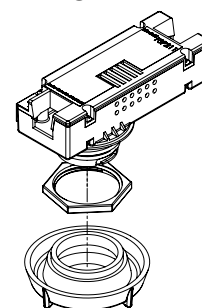
FSP-211



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

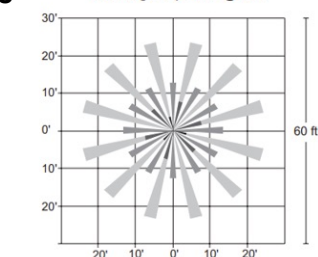
- FSP-221 (FSP-HV-X)—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
- 100-347VAC 208/230/480VAC
- All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
- FSP-8 mounting heights 8 feet and below
- 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



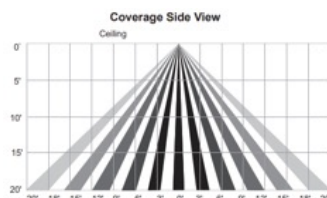
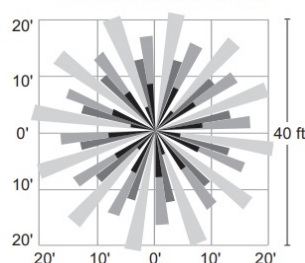
FSP-8

Coverage Top View @ 12ft.



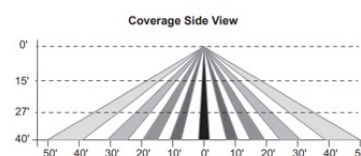
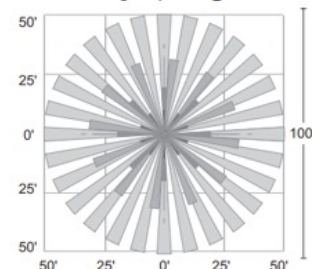
FSP-20

Coverage Top View @ 20 ft.



FSP-40

Coverage Top View @ 40ft



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

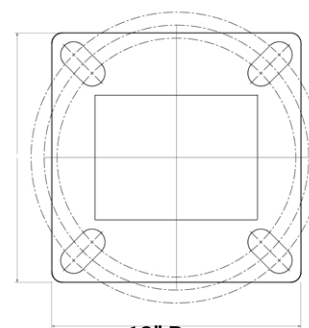
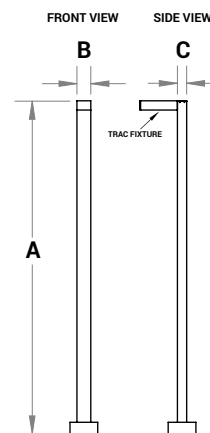
Base plates are machined from 6061 Aluminum, 12" square, 1" thick with 1" anchor bolts.

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.

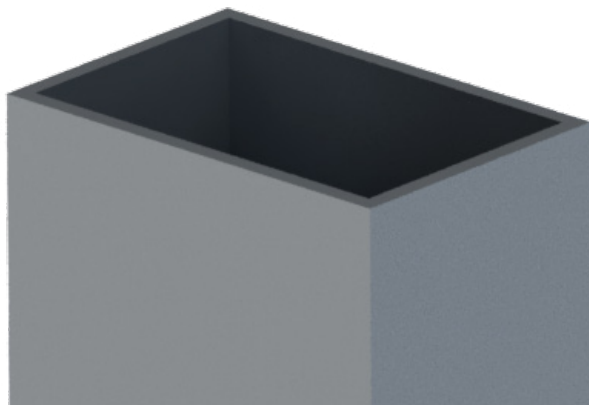
FINISH

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



*Consult Factory for Bolt Circle Template

RECTANGULAR ALUMINUM POLE DETAIL



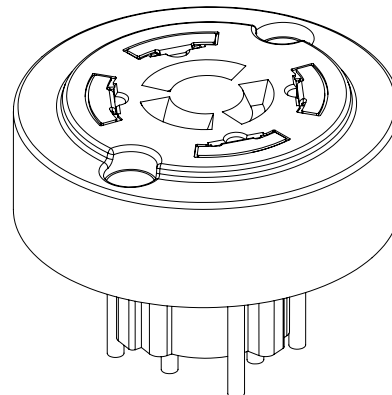
POLE DIMENSIONS	
A	8-12 ft. or Custom Height
B	6 in.
C	4 in.

- * Anchor Bolts are NOT included with Custom Bolt Circle.
- * Do NOT pour concrete referencing this drawing. Consult Factory.
- * Must Specify 4-Bolt Pattern.
- * Customer responsible for doing calculations if NLS pole is not ordered.

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

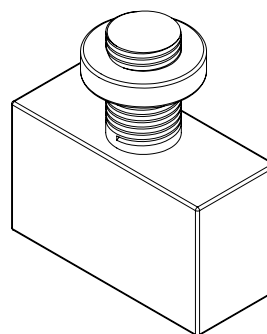
3-5 mil Zinc Rich Super Durable Polyester Primer

Prepared Casting

Chemically washed in multi Step 5 stage cleaning process

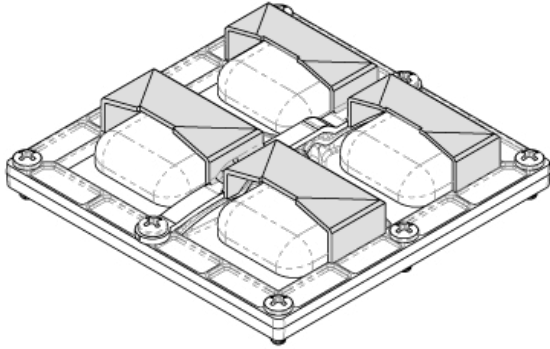
BUTTON PHOTOCELL

Photo Cell for dusk to dawn operation.

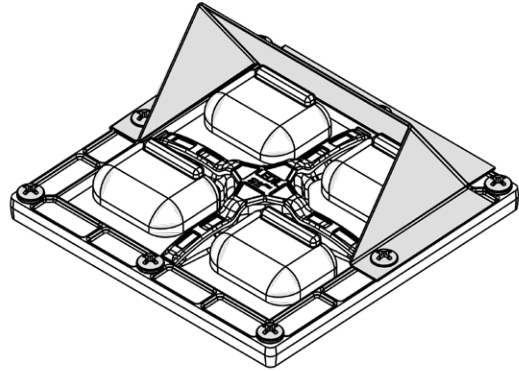


PRODUCT SPECIFICATIONS

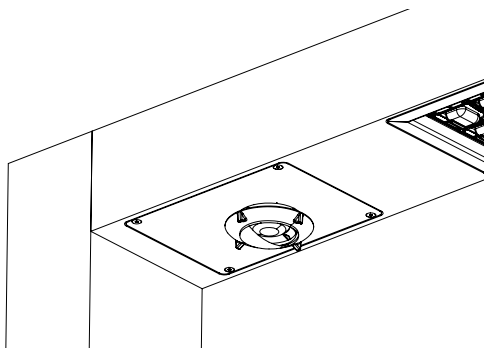
HOUSE SIDE SHIELD



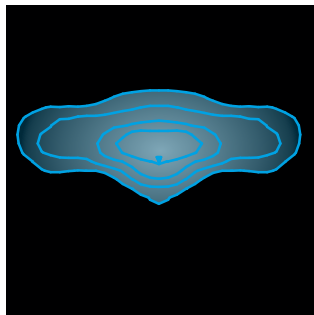
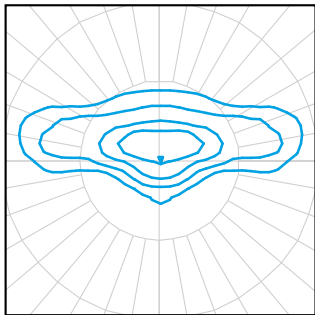
AUTOMOTIVE HOUSE SIDE SHIELD



MOTION SENSOR PLACEMENT

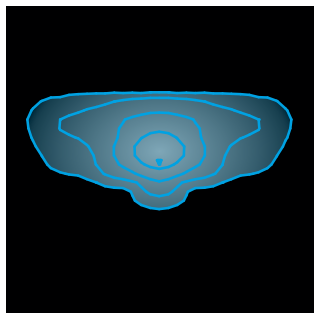
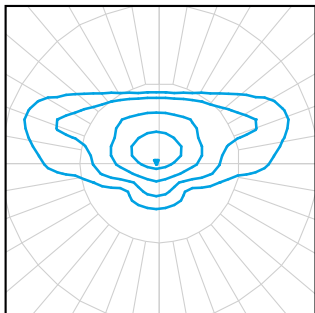


IES DISTRIBUTIONS



T2 OPTIC

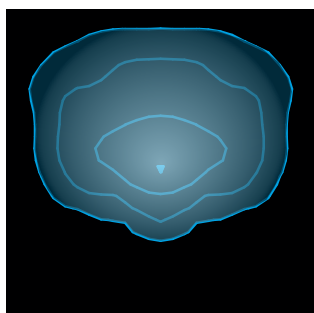
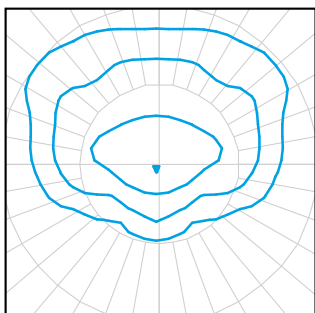
The Type II distribution is used for narrow pathways and trails, narrow entrances of shopping centers, parking lots and office complex's.



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.

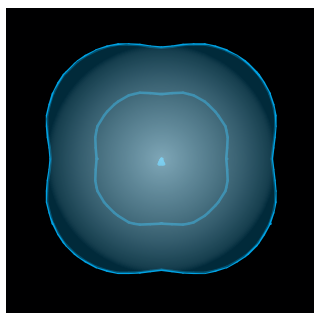
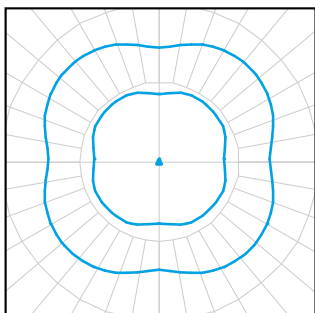
Type III light distributions have a preferred lateral width of 40 degrees. This distribution is intended for luminaires mounted at or near the side of medium width roadways or areas, where the width of the roadway or area does not exceed 2.75 times the mounting height.



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

