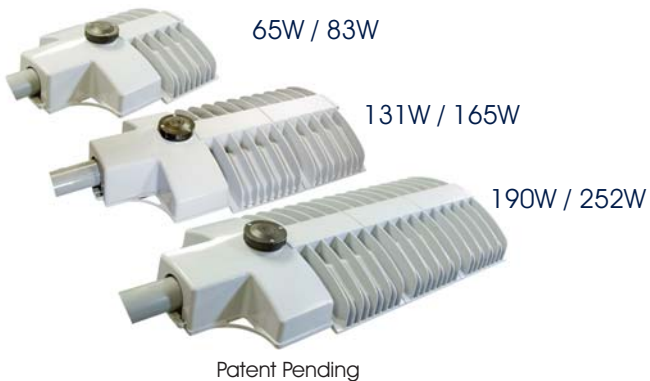




Cape Girardeau, MO



StreetSense® LED Street Light
for roadway and area illumination



StreetSense® LED Street Light

Features and Benefits

Patented Optics

Precision optics and unique mechanical design delivers precise light placement and uniform illumination while minimizing light trespass



- Uniform light distribution delivering sharp cut-off
- Precision, injection molded and coated highly specular vacuum-metalized reflectors

- Dedicated IP 66 sealed optical cavities feature optically optimized glass lenses maximizing efficacy and control of distribution from each light engine module
- Optical light engines are optimally aimed to maximize light collection and directional distribution onto the application area
- High brightness LEDs deliver exceptional fixture efficacy (up to 84 lm/W) in a choice of color temperatures; Cool (5000K ± 300), Neutral (4300K ± 300), typical CRI of 70
- Scotopic to photopic (S/P ratio) of LED is 1:1.6 for 4000K



- No UV or IR emissions
- Optional black anodized house-side shield is available to further reduce back-side light trespass in residential areas

Innovative Design

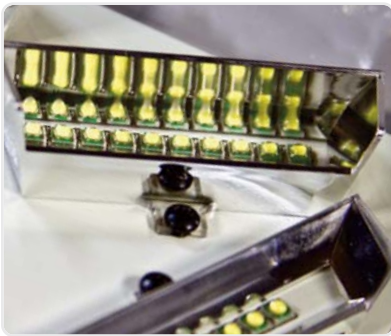
Designed for new construction and easy retrofit of existing HID cobra heads.

- High grade aluminum alloy A360 construction for superior strength and durability
- Wide, angled troughs are self-cleaning to prevent debris build-up between heat sink fins
- Vent openings in light engine casting paired with fins increased air flow velocity providing exceptional passive thermal management



StreetSense® LED Street Light

Features and Benefits



- Metal clad LED PCBs are secured directly to the cast aluminum housing for superior thermal transfer
- Thermal protection circuitry prevents internal temperatures from reaching high levels, increasing long term reliability and allowing operation up to 74°C
- Rugged cast aluminum housing is subjected to a multistage (cleaning and sealing) per process AAMA 2604 and top coated with a super durable, polyester powder coated finish.
- Finish is resistant to blistering, excessive fading or corrosion during warranty period

- Rugged heavy gauge, 4 bolt, aluminum clamp with stainless steel hardware secures fixture to pole arm
- Adjustable pole mount clamp can accommodate up to 2" IP (2.375" OD) pipe with provision for adjustment of $\pm 5^\circ$ at 2.5° increments
- Unique hinged polycarbonate bottom cover provides tool-less access to terminal blocks and pole arm via a single trigger-latch



- Terminal block sized to allow for wire gauges from #14 AWG to #6 AWG and is accessible from under side of fixture
- Salt spray tested for corrosion - 3,000 hours per ASTM B117-97
- Withstands shock & vibration to Caltrans 611 levels – 3.0G peak-to-peak, 2 million cycles
- Stainless steel, SAE, captive hardware
- Large, easy to read two axis bubble level for quick and efficient fixture leveling during installation

Electrical

Ruggedized driver design and thermal management system ensure maximum energy efficiency and reliability



- Dialight's custom IP 65 rated LED drivers are constant current sources well suited for the load and the particular lighting application
- Field replaceable, primary fused, output isolated drivers are fully potted and encased in an aluminum extrusion for EMI noise immunity and thermal protection
- High efficiency, high power factor, ultra low THD, LED drivers incorporate overload and no load protection circuitry
- Universal inputs 100-277V AC, 50/60Hz, 347 - 480V AC, 50/60Hz
- LED Driver MTBF per Telcordia SR-332 – 5, which equals 102,040 hrs at 13.8C (average yearly temperature of five major cities)

StreetSense® LED Street Light

Features and Benefits



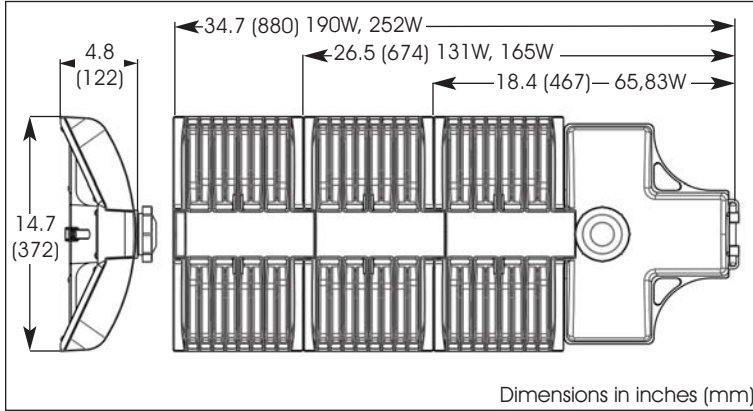
- Safety grommets in casting through-holes prevent abrasions to electrical wire insulation
- Robust, integrated standard ----10kV/10kVA surge protection circuitry incorporate MOVs designed to clamp line voltages to safe levels per ANSI/IEEE C62.41.2-2002 Cat C

- 7 year full performance warranty
- Factory burn-in (24 hr to avoid infant fatality)





StreetSense® LED Street Light



Certifications and Ratings:

- UL 1598 (Suitable for Wet Locations)
- UL 8750
- UL 1012
- UL 1449
- CE
- CSA C22.2 No. 250.0-08
- IP 66

Compliances:

- RP-8-00 (R2005)
- IEC 60529 (IP 66)
- ANSI 1012
- ANSI C 136.15-2011
- ANSI/IEEE C62.41.2-2002
- ANSI/NEMA/ANSLG C78.377-2008
- ANSI C136.2-2004 (R2009)
- ANSI C136.3-2005
- ANSI C136.10-2006
- ANSI C136.21-2004
- ANSI C136.25-2009/IEC 60529
- ANSI C136.31-2001
- ANSI C136.32-2006
- ANSI C136.37-2011
- ASTM B117-97
- ASTM B117 - salt spray (3000 hours)
- Conforms with CALTRANS vibration test 611 – 3G vibration (2,000,000 cycles)
- IDA Dark Sky
- RoHS

Test Reports:

- LM-79
- LM-80
- RP-8-00
- TM21
- Telcordia SR-332

Mechanical Information

Fixture Weight	
65,83W:	16lbs (7.26kg)
131W, 165W:	25lbs (11.34kg)
190W, 252W:	34lbs (15.42kg)

EPA (Sq. ft)	
65,83W:	0.60
131W, 165W:	0.87
190W, 252W:	1.13

Mounting: Accommodates 1.25" (1.66" OD) - 2" (2.375" OD) 31.75mm (42.16mm OD) - 50.8mm (60.32mm OD) pipe. Provision for adjustment of +/- 5° at 2.5° increments

Electrical Specifications

Operating Voltage: 100 - 277V AC, 50/60Hz
347 - 480V AC, 50/60Hz

Total System Power Consumption: See ordering info on pg. 6

Operating Temp: -40°F to 165°F (-40°C to 74°C) ambient

Terminal Block: #14 AWG (1.6mm) to #6 AWG (4.1mm) wire and accessible via hinged tool less entry

Noise Requirements / EMC: FCC Title 47, Subpart B, Section 15, class A device. RF Immunity; 10V/m, 80MHz-1GHz

Transient Protection 100-277VAC, 50/60Hz: Open circuit surge protection 10kV standard per ANSI/IEEE C62.41. 2.2002 cat C high

THD: <15% (100 - 240V AC)
<20% (277V AC)
<20% (480V AC)

Power Factor: >0.9

Material

Housing: Die cast aluminum alloy A360
Polymeric materials UL94 V0 flame retardant materials

Finish: Polyester powder coat for superior corrosion resistance
Gray - RAL 7040

Lens: Optically optimized, tempered glass

Photo controller Socket: Standard NEMA three prong twist lock, socket with shorting cap, as per ANSI C136.10

Photometric Information

CRI:	70
CCT:	5000K (cool white) 4300K (neutral white)
Optics:	IES Type III
IES files:	available on www.dialight.com

All values typical unless otherwise stated
All lumen values are typical (tolerance +/- 10%)



StreetSense® LED Street Light

Ordering Information

Part Number	Fixture Lumens	Total System Power Consumption	Lumen Per Watt		Color	BUG Rating	EPA (SQ. ft)	Number of Light Engines
Standard models - 100 - 277V AC								
SL3N5SLGG	20,250	252	80	100 - 277V AC	4300K (neutral white)	B3U1G3	1.13	3
SL3C5SLGG	20,250	252	80	100 - 277V AC	5000K (cool white)	B3U1G3	1.13	3
SL3C5RLGG	16,000	190	84	100 - 277V AC	5000K (cool white)	B3U1G3	1.13	3
SL3N5RLGG	16,000	190	84	100 - 277V AC	4300K (neutral white)	B3U1G3	1.13	3
SL3C5ILGG	13,300	165	81	100 - 277V AC	5000K (cool white)	B3U1G3	0.87	2
SL3N5ILGG	13,250	165	80	100 - 277V AC	4300K (neutral white)	B3U1G3	0.87	2
SL3N5HLGG	11,000	131	84	100 - 277V AC	4300K (neutral white)	B2U1G2	0.87	2
SL3C5HLGG	10,900	131	83	100 - 277V AC	5000K (cool white)	B2U1G2	0.87	2
SL3C5DLGG	6,800	83	82	100 - 277V AC	5000K (cool white)	B2U1G2	0.60	1
SL3N5DLGG	6,750	83	81	100 - 277V AC	4300K (neutral white)	B2U1G2	0.60	1
SL3N5CLGG	5,500	65	85	100 - 277V AC	4300K (neutral white)	B1U1G1	0.60	1
SL3C5CLGG	5,500	65	85	100 - 277V AC	5000K (cool white)	B1U1G1	0.60	1
Standard models - 345 - 480V AC								
SL3N7SLGG	20,250	252	80	347 - 480V AC	4300K (neutral white)	B3U1G3	1.13	3
SL3C7SLGG	20,250	252	80	347 - 480V AC	5000K (cool white)	B3U1G3	1.13	3
SL3C7RLGG	16,000	190	84	347 - 480V AC	5000K (cool white)	B3U1G3	1.13	3
SL3N7RLGG	16,000	190	84	347 - 480V AC	4300K (neutral white)	B3U1G3	1.13	3
SL3C7ILGG	13,300	165	81	347 - 480V AC	5000K (cool white)	B3U1G3	0.87	2
SL3N7ILGG	13,250	165	80	347 - 480V AC	4300K (neutral white)	B3U1G3	0.87	2
SL3N7HLGG	11,000	131	84	347 - 480V AC	4300K (neutral white)	B2U1G2	0.87	2
SL3C7HLGG	10,900	131	83	347 - 480V AC	5000K (cool white)	B2U1G2	0.87	2
SL3C7DLGG	6,800	83	82	347 - 480V AC	5000K (cool white)	B2U1G2	0.60	1
SL3N7DLGG	6,750	83	81	347 - 480V AC	4300K (neutral white)	B2U1G2	0.60	1
SL3N7CLGG	5,500	65	85	347 - 480V AC	4300K (neutral white)	B1U1G1	0.60	1
SL3C7CLGG	5,500	65	85	347 - 480V AC	5000K (cool white)	B1U1G1	0.60	1

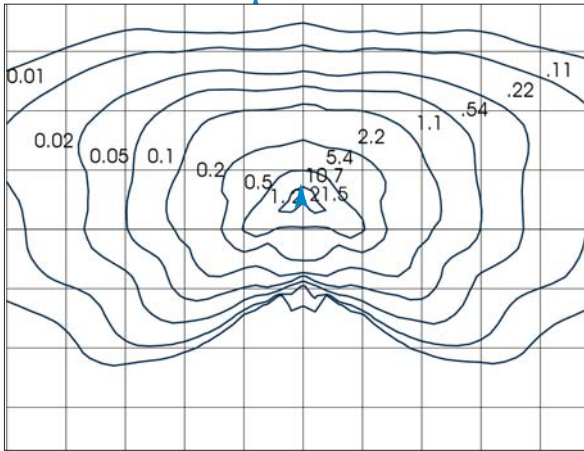
For Dialight's complete list of DLC qualified products, please click this link: www.dialight.com/DLC
 Consult factory for the following options; alternate IES types, alternate housing colors.

Options and Accessories

	Part Number	Description	Kit Includes
	SL-PC01R	105 - 305V AC Photocontroller	Photocontroller (Blue)
	SL-PC02R	312 - 382V AC Photocontroller	Photocontroller (Green)
	SL-PC03R	432 - 528V AC Photocontroller	Photocontroller (Yellow)
	SLSHIELDKIT	House Side Shield	House side shield Mounting hardware
	Consult factory	ANSI Label	ANSI Label

Measurement Data - IES Type III

Iso-Illuminance Chart

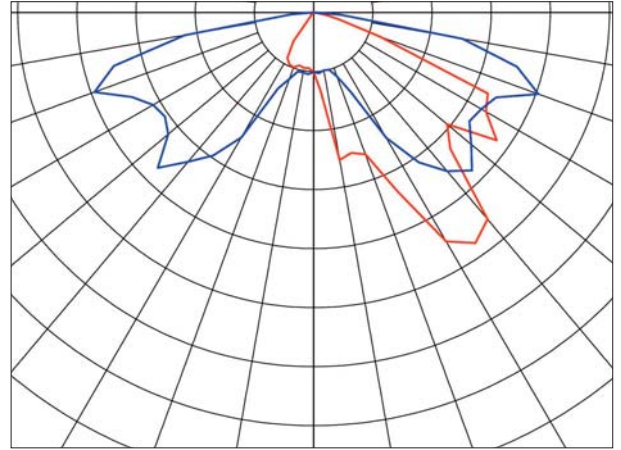


Mounting height - 25' (7.6m)

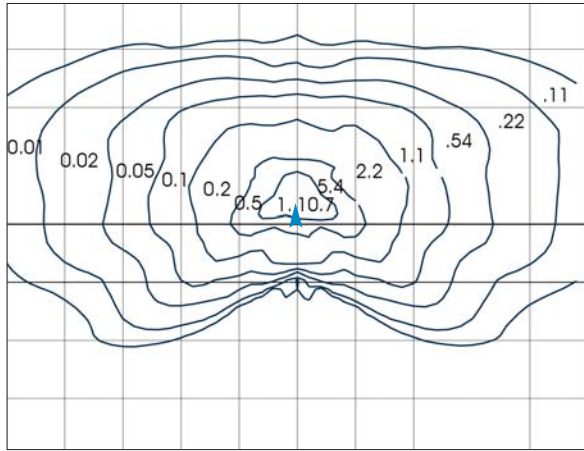
65 Watt

Mounting Height	Multiplier
10' (3.0m)	6.25
15' (4.6m)	2.778
20' (6.1m)	1.563
25' (7.6m)	1
30' (9.1m)	0.694
35' (10.7m)	0.51
40' (12.7m)	0.391
45' (13.4m)	0.309
50' (15.2m)	0.25

Intensity Distribution Curve (cd)



Iso-Illuminance Chart

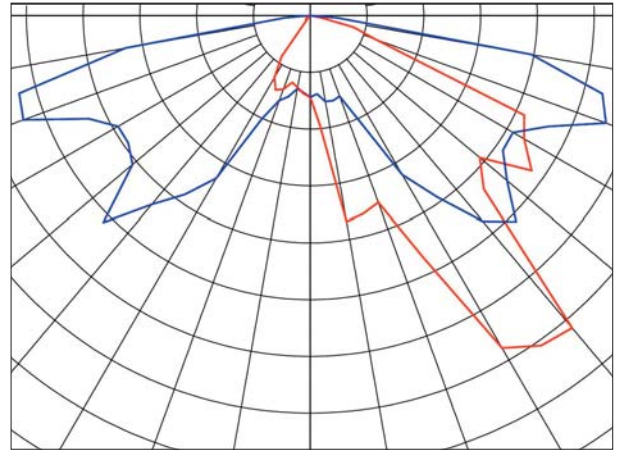


Mounting height - 25' (7.6m)

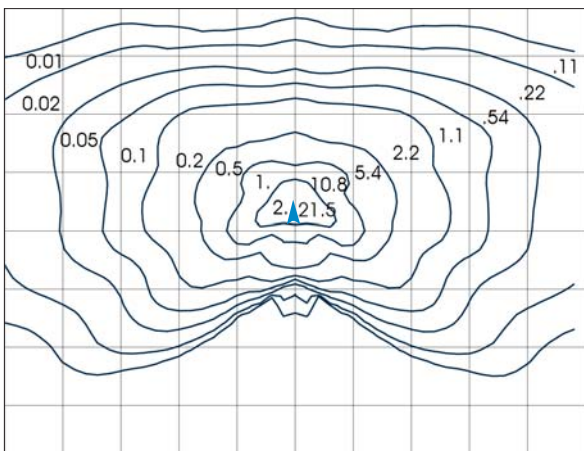
83 Watt

Mounting Height	Multiplier
10' (3.0m)	6.25
15' (4.6m)	2.778
20' (6.1m)	1.563
25' (7.6m)	1
30' (9.1m)	0.694
35' (10.7m)	0.51
40' (12.7m)	0.391
45' (13.4m)	0.309
50' (15.2m)	0.25

Intensity Distribution Curve (cd)



Iso-Illuminance Chart

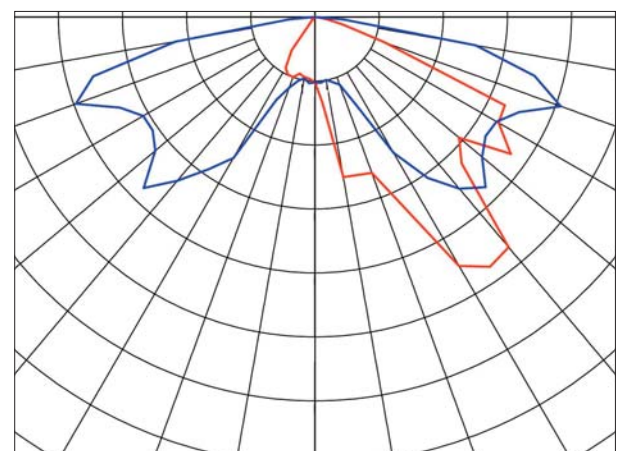


Mounting height - 30' (9.1m)

131 Watt

Mounting Height	Foot Candle Multiplier
10' (3.0m)	9
15' (4.6m)	4
20' (6.1m)	2.25
25' (7.6m)	1.44
30' (9.1m)	1
35' (10.7m)	0.735
40' (12.7m)	0.563
45' (13.4m)	0.444
50' (15.2m)	0.36

Intensity Distribution Curve (cd)

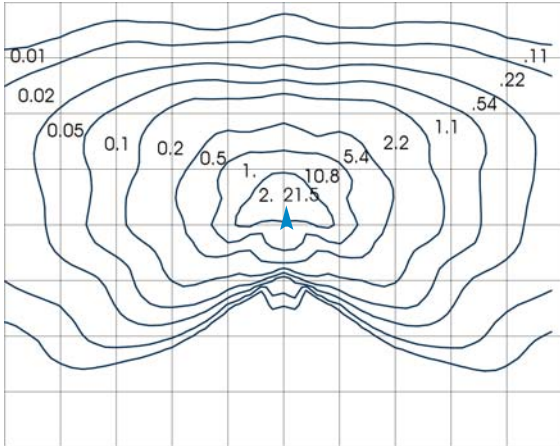


- Location of streetlight
 Spacing of each box is equal to mounting height in feet (meters).
 Ex: 40' (12.2m) mounting height = each box is 40' (12.2m), 30' (9.1m) mounting height = each box is 30' (9.1m)
 Values shown are for cool white and neutral white units, for warm white multiply the Fc or Lux value by .82

Measurement Data - IES Type III

Iso-Illuminance Chart

← FC - Lux →

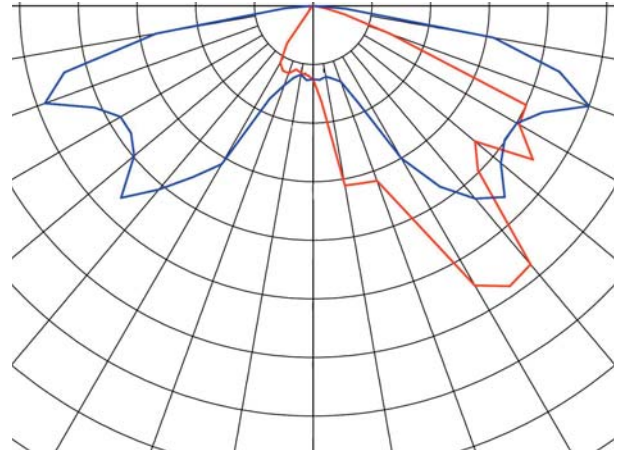


Mounting height - 30' (9.1m)

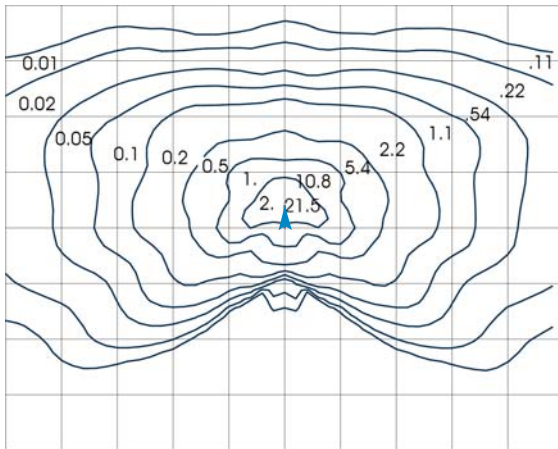
165 Watt

Mounting Height	Multiplier
10' (3.0m)	9
15' (4.6m)	4
20' (6.1m)	2.25
25' (7.6m)	1.44
30' (9.1m)	1
35' (10.7m)	0.735
40' (12.7m)	0.563
45' (13.4m)	0.444
50' (15.2m)	0.250

Intensity Distribution Curve (cd)



Iso-Illuminance Chart

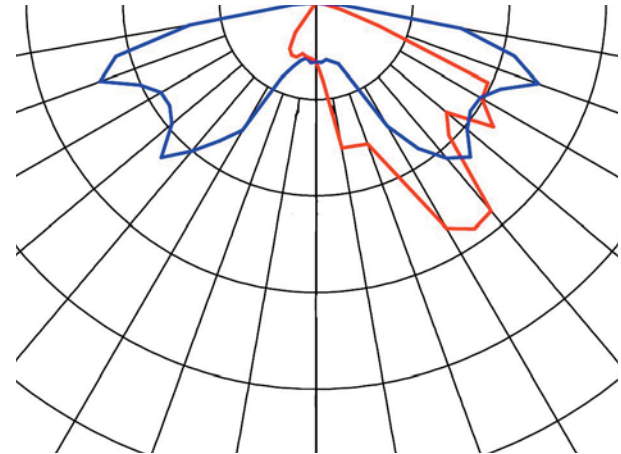


Mounting height - 35' (9.1m)

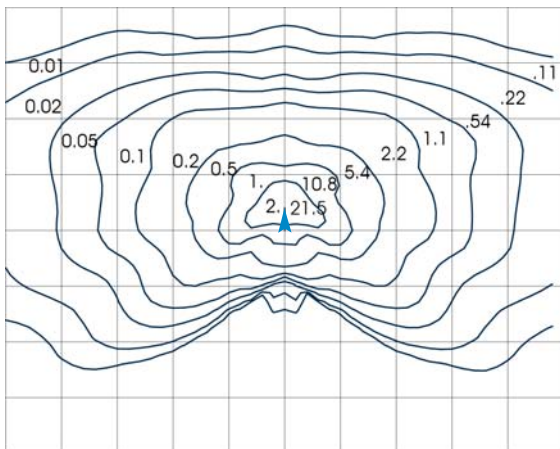
190 Watt

Mounting Height	Multiplier
10' (3.0m)	12.250
15' (4.6m)	5.444
20' (6.1m)	3.063
25' (7.6m)	1.960
30' (9.1m)	1.361
35' (10.7m)	1.000
40' (12.7m)	0.766
45' (13.4m)	0.605
50' (15.2m)	0.490

Intensity Distribution Curve (cd)



Iso-Illuminance Chart

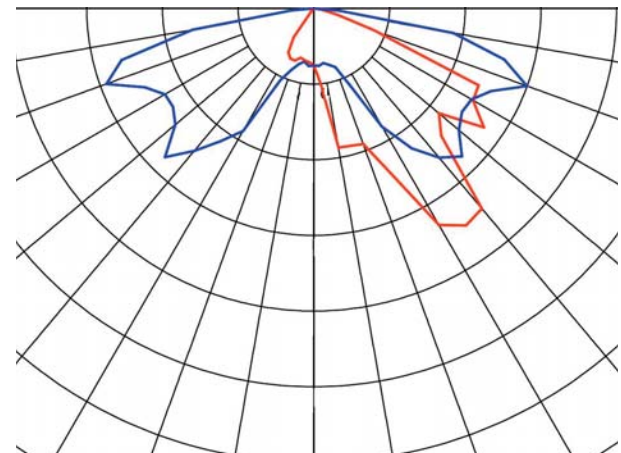


Mounting height - 40' (12.1m)

252 Watt

Mounting Height	Multiplier
10' (3.0m)	16.000
15' (4.6m)	7.111
20' (6.1m)	4.000
25' (7.6m)	2.560
30' (9.1m)	1.778
35' (10.7m)	1.306
40' (12.7m)	1.000
45' (13.4m)	0.790
50' (15.2m)	0.640

Intensity Distribution Curve (cd)



▲ - Location of streetlight
 Spacing of each box is equal to mounting height in feet (meters).
 Ex: 40' (12.2m) mounting height = each box is 40' (12.2m), 30' (9.1m) mounting height = each box is 30' (9.1m)
 Values shown are for cool white and neutral white units, for warm white multiply the Fc or Lux value by .82

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