

# .....Dialight

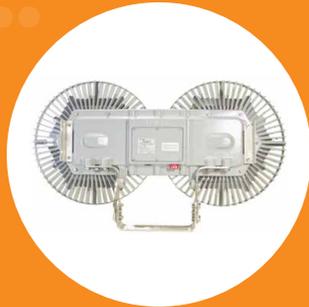


**StreetSense<sup>®</sup> LED Street Light - UL**  
for Roadway and Area Illumination

# On when it matters most.

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Products and solutions that protect your business





## Compliances

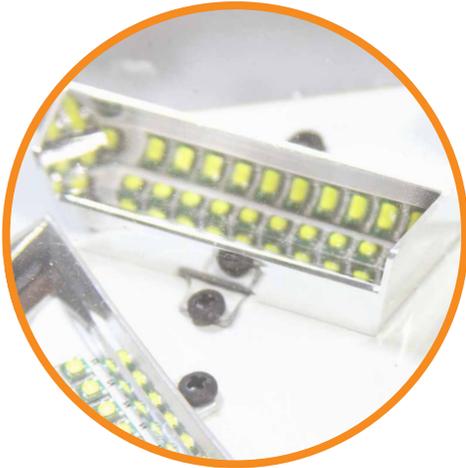
- RP-8-00 (R2005)
- IEC 60529 (IP66)
- ANSI 1012
- ANSI C 136.15-2011
- ANSI/IEEE C62.41.2-2002
- ANSI/NEMA/ANSLG C78.377-2008
- ANSI C136.2-2004 (R2009)
- ANSI C136.3-2005
- ANSI C136.10-2006
- ANSI C136.21-2004
- ANSI C136.25-2009/IEC 60529

## Compliances

- 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

# StreetSense LED Street Light - UL

## 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 IP66 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  $\pm$  300), Neutral (4300K  $\pm$  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
- 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 65°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



# StreetSense LED Street Light - UL

## Features and Benefits



- 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  $2.5^\circ$  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 gauge 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

### Rugged driver design and thermal management system ensure maximum energy efficiency and reliability.

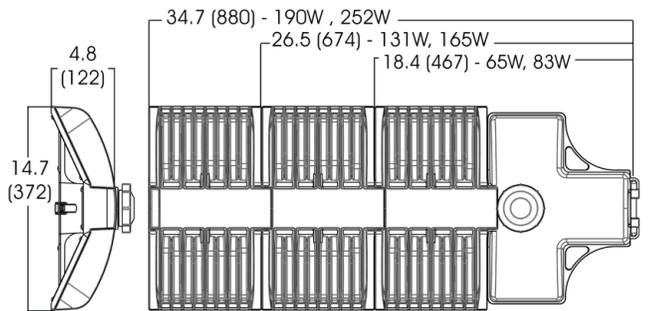
- Dialight's custom IP65 rated LED drivers are constant current sources well suited for the load and the particular lighting application
- Field replaceable, primary fused, output isolated drivers are fully potted and encased in an aluminum extrusion for EMI noise immunity and thermal protection

- 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 - UL

## Standard Models



Dimensions in inches (mm)

### Certifications & Ratings

- UL1598 (suitable for wet locations)
- UL8750
- UL1012
- UL1449
- CE
- CSA C22.2 No. 250.0-08
- IP66 (optics & driver)

### Mechanical Information:

#### Fixture weight:

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

#### Shipping weight:

65W,83W:	21lbs (12kg)
131W, 165W:	30lbs (16kg)
190W, 252W:	39lbs (20kg)

#### 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

#### EPA (Sq. ft):

65,83W:	0.60
131W, 165W:	0.87
190W, 252W:	1.13

### Electrical Specifications:

#### Operating Voltage:

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

#### Total system power consumption:

See table

#### 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 requirement /EMC:

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

#### Transient protection:

Open circuit surge protection 10kV standard per ANSI/IEEE C62.41. 2.2002 cat C high

#### THD:

<20%

#### Power Factor:

> 0.9

### Construction:

#### Housing:

Copper free aluminum

#### Finish:

Superior dual coat finish  
- Sealed polyester topcoat  
- Chemical-resistant epoxy primer

#### 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

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

# StreetSense LED Street Light - UL

## Ordering Information

Part Number	Number of Light Engines	EPA (SQ. ft)	BUG Rating	Voltage	Lens	CCT	Fixture Lumens	Watt	LPW	Optical Pattern
Standard Models - 100 - 277V AC										
SL3C5CLGG	1	0.60	B1U1G1	100 - 277V AC	Tempered glass	5000K (cool white)	5,500	65	85	Type III
SL3C5DLGG	1	0.60	B2U1G2	100 - 277V AC	Tempered glass	5000K (cool white)	6,800	83	82	Type III
SL3C5HLGG	2	0.87	B2U1G2	100 - 277V AC	Tempered glass	5000K (cool white)	10,900	131	83	Type III
SL3C5ILGG	2	0.87	B3U1G3	100 - 277V AC	Tempered glass	5000K (cool white)	13,300	165	81	Type III
SL3C5RLGG	3	1.13	B3U1G3	100 - 277V AC	Tempered glass	5000K (cool white)	16,000	190	84	Type III
SL3C5SLGG	3	1.13	B3U1G3	100 - 277V AC	Tempered glass	5000K (cool white)	20,250	252	80	Type III
Standard Models - 347 - 480V AC										
SL3C7CLGG	1	0.60	B1U1G1	347 - 480V AC	Tempered glass	5000K (cool white)	5,500	65	85	Type III
SL3C7DLGG	1	0.60	B2U1G2	347 - 480V AC	Tempered glass	5000K (cool white)	6,800	83	82	Type III
SL3C7HLGG	2	0.87	B2U1G2	347 - 480V AC	Tempered glass	5000K (cool white)	10,900	131	83	Type III
SL3C7ILGG	2	0.87	B3U1G3	347 - 480V AC	Tempered glass	5000K (cool white)	13,300	165	81	Type III
SL3C7RLGG	3	1.13	B3U1G3	347 - 480V AC	Tempered glass	5000K (cool white)	16,000	190	84	Type III
SL3C7SLGG	3	1.13	B3U1G3	347 - 480V AC	Tempered glass	5000K (cool white)	20,250	252	80	Type III

All values typical unless otherwise stated, Lumen values are typical (tolerance +/- 10%).

Part numbers listed in the above table are cool white. For neutral white model, replace the 4th character with **N** Ex: SL3C5CLGG becomes SL3N5CLGG

# StreetSense LED Street Light - UL

## Mounting and Accessories



### SLSHIELDKIT

- House side shield



### SL-PC01R

- 105 - 305V AC Photocontroller

### SL-PC02R

- 312 - 382V AC Photocontroller

### SL-PC03R

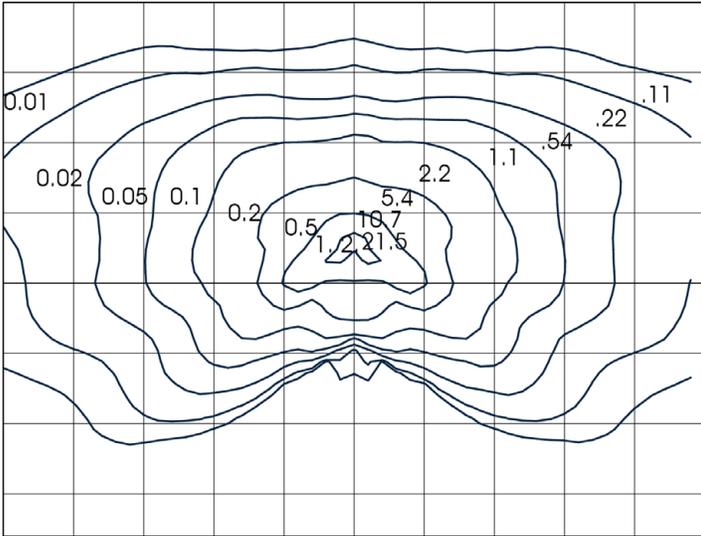
- 432 - 528V AC Photocontroller

# StreetSense LED Street Light - UL

## Light Distribution and Measurement Data - IES Type III

65 Watt

Iso-Illuminance Chart



Mounting height - 25' (7.6m)

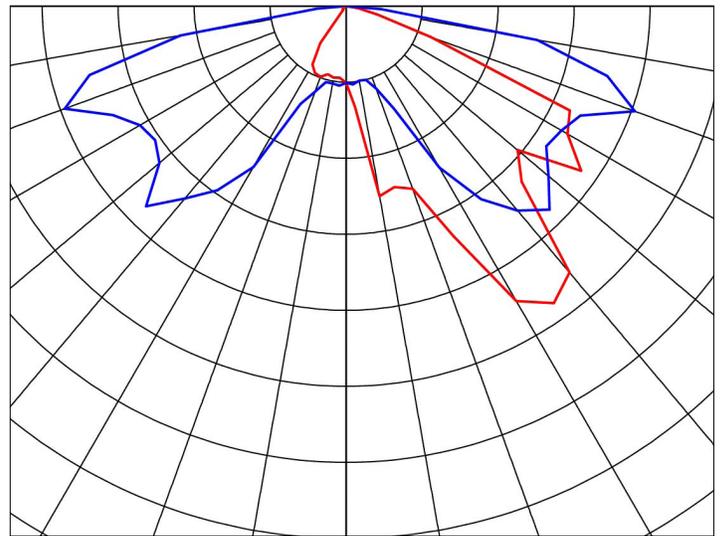
- Location of streetlight

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

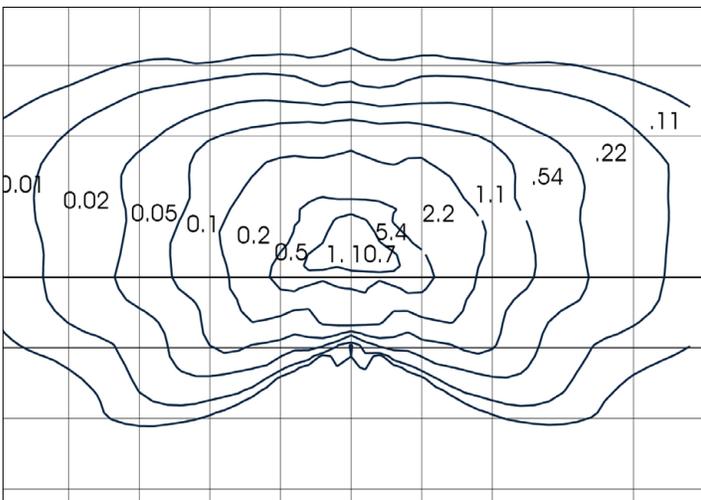
Intensity Distribution Curve (cd)



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

83 Watt

Iso-Illuminance Chart



Mounting height - 25' (7.6m)

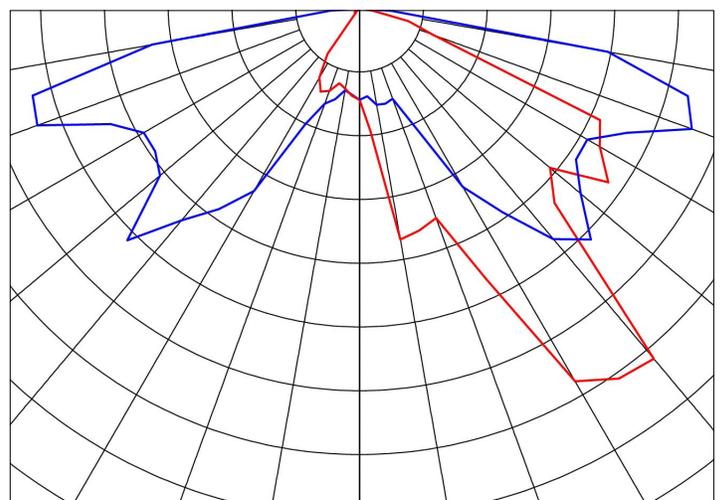
- Location of streetlight

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Intensity Distribution Curve (cd)



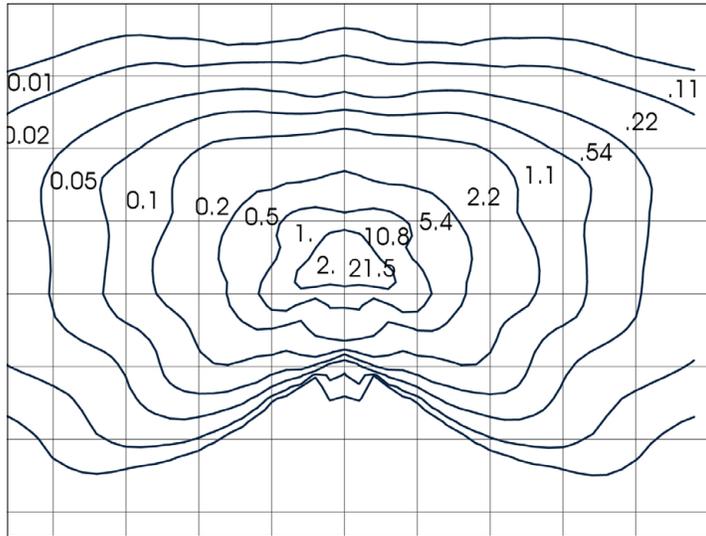
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Multiplier	6.25	2.778	1.563	1	0.694	0.51	0.391	0.309	0.25

# StreetSense LED Street Light - UL

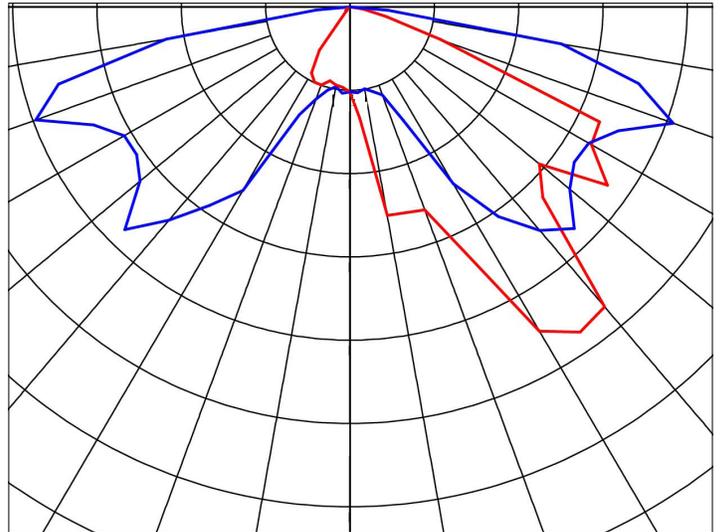
## Light Distribution and Measurement Data - IES Type III

131 Watt

Iso-Illuminance Chart



Intensity Distribution Curve (cd)



Mounting height - 25' (7.6m)

- Location of streetlight

Spacing of each box is equal to mounting height in feet (meters).

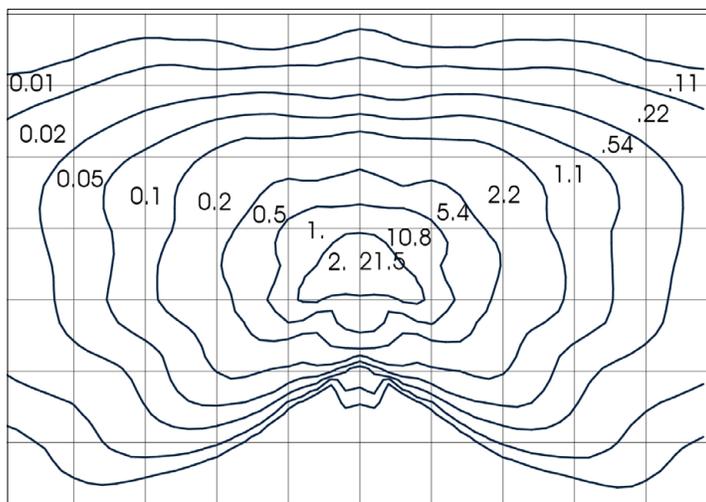
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Values shown are for cool white and neutral white units, for warm white multiply the Fc or Lux value by .82

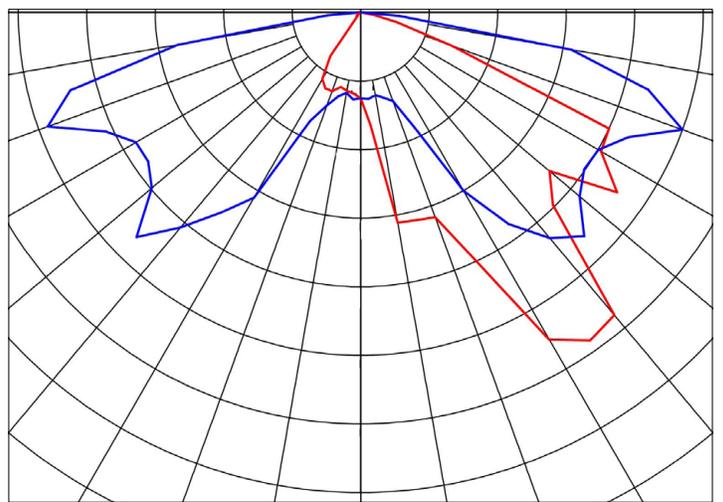
Mounting Height	10' (3.0m)	15' (4.6m)	20' (6.1m)	25' (7.6m)	30' (9.1m)	35' (10.7m)	40' (12.7m)	45' (13.4m)	50' (15.2m)
Multiplier	6.25	2.778	1.563	1	0.694	0.51	0.391	0.309	0.25

165 Watt

Iso-Illuminance Chart



Intensity Distribution Curve (cd)



Mounting height - 25' (7.6m)

- Location of streetlight

Spacing of each box is equal to mounting height in feet (meters).

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Values shown are for cool white and neutral white units, for warm white multiply the Fc or Lux value by .82

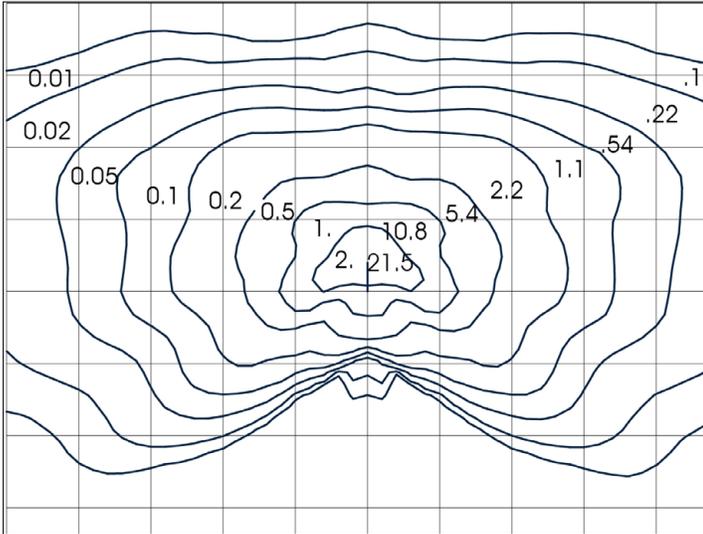
Mounting Height	10' (3.0m)	15' (4.6m)	20' (6.1m)	25' (7.6m)	30' (9.1m)	35' (10.7m)	40' (12.7m)	45' (13.4m)	50' (15.2m)
Multiplier	6.25	2.778	1.563	1	0.694	0.51	0.391	0.309	0.25

# StreetSense LED Street Light - UL

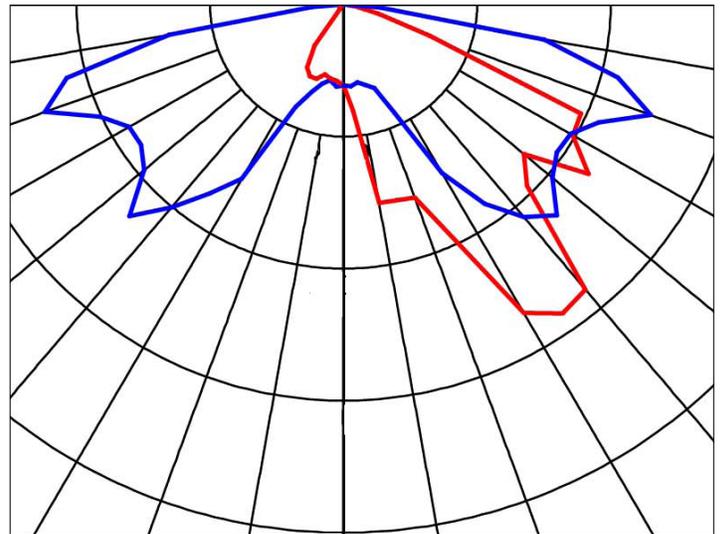
## Light Distribution and Measurement Data - IES Type III

65 Watt

Iso-Illuminance Chart



Intensity Distribution Curve (cd)



Mounting height - 25' (7.6m)

- Location of streetlight

Spacing of each box is equal to mounting height in feet (meters).

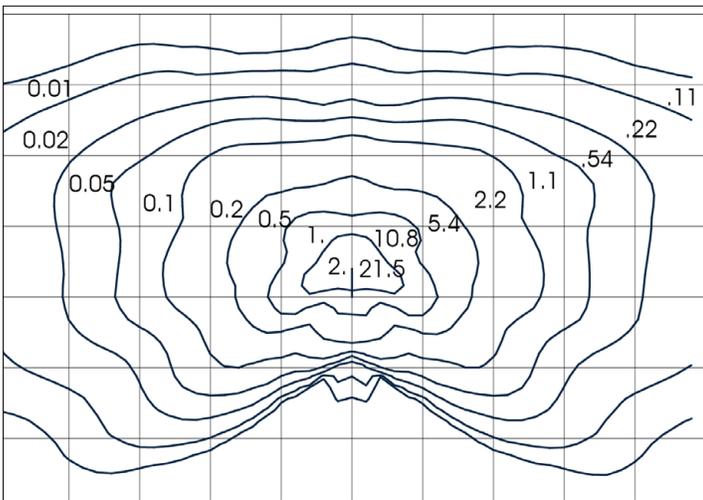
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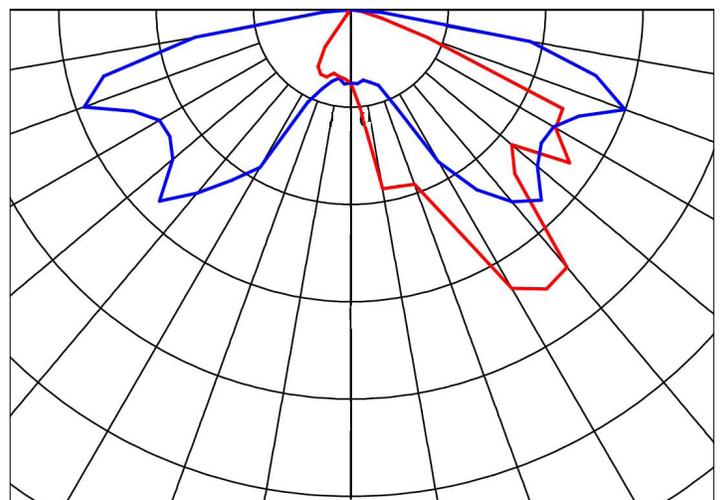
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Multiplier	6.25	2.778	1.563	1	0.694	0.51	0.391	0.309	0.25

83 Watt

Iso-Illuminance Chart



Intensity Distribution Curve (cd)



Mounting height - 25' (7.6m)

- 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)

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Multiplier	6.25	2.778	1.563	1	0.694	0.51	0.391	0.309	0.25

