

IL 450 Series

LED Industrial Lighting

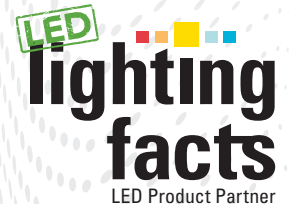


Advantages of IL450

- **Proprietary Reflector and Optics** enabling glare-free uniform lighting for all working environments. Eliminating the need for costly and fragile plastic lenses
- Cost effective solution with a **Short ROI Period**
- **Advanced Thermal Technology** enables low LED junction temperatures (T_j) for maintenance free long life
- **Dura-Guard** double layer epoxy coating with industry leading 10 year protection on weather and corrosion
- L70 Rating @ T_a 25°C Over 170,000 hour rated life
- Optional programmable **RF Wireless Smart Control System with PIR motion & daylight sensor** enabling greater savings and flexibility
- A true industrial grade luminaire that is **IP68** (water, dust & vapor-proof) rated with an exceptional **10-Year Limited Warranty**
- Designed and Engineered in the **USA**

Application - High Bay

- Food Processing Plants
- Manufacturing Plants
- Warehouses
- Parking Structures
- Canopy Lighting
- Sports Arenas
- Airplane Hangers



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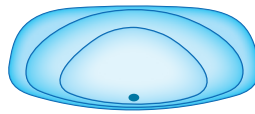
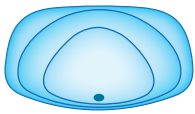
Optics Options

02 - Type II / wall mount & perimeter lighting

S - Short

M - Medium

L - Long

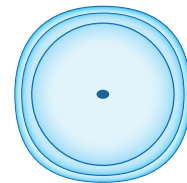
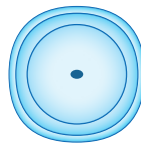


R5 - Type V Round / symmetric for low-mid-high bay, parking garages and flood application

S - Short

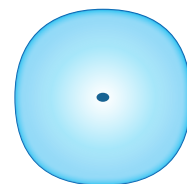
M - Medium

L - Long



F5 - Type V Opaque - Frosted / symmetric for ultra uniform & low glare application

L - Long

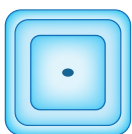


S5 - Type V Square / symmetric for high-bay, isle, high-mast and flood application

S - Short

M - Medium

L - Long



IL 450 Series

LED Industrial Lighting

Mounting Options



SPRING LOADED SNAP & TURN SURFACE MOUNTING SYSTEM

Part Number

Part Description

SST-IL45-B

Snap & Turn Surface Mount Bracket / Steel Black



SPRING LOADED SNAP & TURN MOUNTING SYSTEM

Part Number

Part Description

SST-IL45-45B

Snap & Turn Hanging System / 18" (45cm) / Galvanized Steel Black

SST-IL45-90B

Snap & Turn Hanging System / 36" (90cm) / Galvanized Steel Black



CHAIN CHANDELIER MOUNTING SYSTEM

Part Number

Part Description

CH4-IL45-45C

4 Link Chain Chandelier System / 18" (45cm) / Chrome Steel

CH4-IL45-90C

4 Link Chain Chandelier System / 36" (90cm) / Chrome Steel



WALL MOUNTING SYSTEM

Part Number

Part Description

W90-IL45-45B

90° Wall Mount Elbow Bracket / 18" (45cm) / Galvanized Steel Black

W90-IL45-75B

90° Wall Mount Elbow Bracket / 30" (75cm) / Galvanized Steel Black



VARIABLE ANGLE SWIVEL MOUNTING SYSTEM

Part Number

Part Description

SWL-IL45-SS

Variable Angle Swivel Mounting Bracket / Stainless Steel

IL450 Series

LED Industrial Lighting - 150Watt

Ordering Information

IL45	Wattage	Voltage	Optics	Pitch	CCT	Driver	Mounting *
	075 = 75Watt 100 = 100Watt 120 = 120Watt 150 = 150Watt 185 = 185Watt 220 = 220Watt	UV = 90-277VAC HV = 305-528VAC DV = 127-380VDC	R5 = Type V Round S5 = Type V Square F5 = Type V Frosted	S = Short M = Medium L = Long	30 = 3000K 40 = 4000K 55 = 5500K	ND = Non-Dimmable DM = Dimmable DS = Dimmable With Sensor DL = Dali Control LS = Dali Control With Sensor	SST = Snap & Turn CH4 = 4 Chain W90 = 90° Mount SWL = Swivel Mount

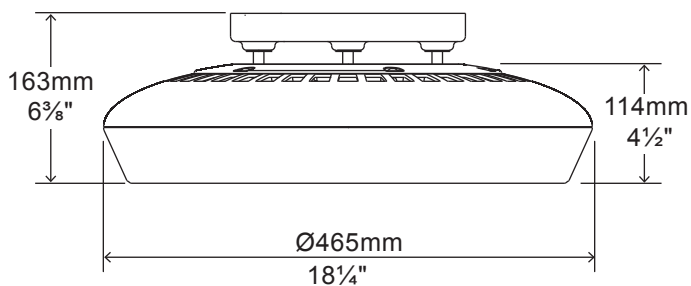
* SST mount is standard, please see mounting options accessories for details.

NOTE: Outdoor application and corrosive environment please request glass lens.
Gray is the standard exterior color. Other colors are available on request.

Example

Part Number	Part Description
IL450-150UV-R5M-50DS-SST	LED Industrial Light / 150Watt / 90-277VAC / Type V Round / Medium Pitch / 5000K Cool White / Dimmable with Daylight & Motion Sensor / Snap & Turn

External Dimensions



Packaging Information

Quantity	Dimensions (LxWxH)	Weight
1	50 x 50 x 28 cm 19 5/8 x 19 5/8 x 11 in	16.5 kg 36.3 lbs

IL 450 Series

LED Industrial Lighting - 150Watt - Type II

Specification - Type II Short

Input Voltage	90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC
Fixture Watts	150 Watt
Lumens (Total) *	16,650 Lumens
Efficacy *	111 Lumens / W
LED Model	Lumileds / Nichia / Cree
Number of LEDs & Driving Current	24@560mA
CRI	75
T _s - Solder Point Temp *	63°C
L70 Rating @ T _a 25°C	> 170K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T _a)	-40°C ~ 55°C
Storage Temp. / Humidity	-40°C ~ 80°C / IP68 Waterproof Rated Fixture
Transient Surge Protection	6kV / 3kA (L - L, L-G)

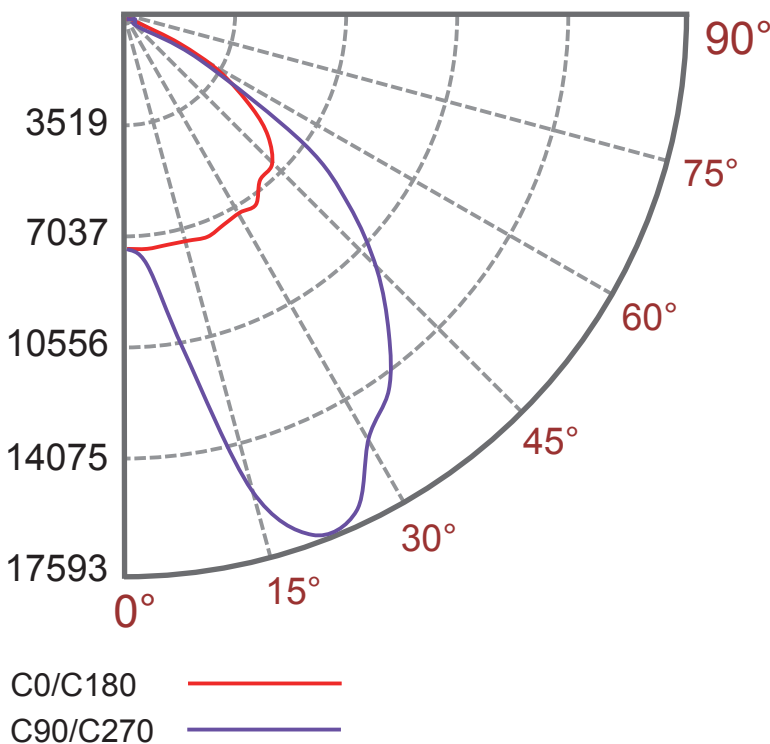
* Test data @ 25°C

NOTE: All Values Have ±7% Tolerance

NOTE: Light intensities measured directly below fixture



Light Distribution Curve



Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	5194.8	31.2%
0-40	8957.7	53.8%
0-60	15567.8	93.5%
0-90	16633.4	99.9%
0-180	16650.0	100.0%

Illumination Levels

Mounting Height	LUX	FC
4m / 13ft	400	37
5m / 16.5ft	256	24
6m / 20ft	178	16.5
7m / 23ft	130.5	12
8m / 26ft	100	9
9m / 29.5ft	79	7
10m / 33ft	64	6

IL 450 Series

LED Industrial Lighting - 150Watt - Type II

Specification - Type II Medium

Input Voltage	90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC
Fixture Watts	150 Watt
Lumens (Total) *	17,550 Lumens
Efficacy *	117 Lumens / W
LED Model	Lumileds / Nichia / Cree
Number of LEDs & Driving Current	24@560mA
CRI	75
T _s - Solder Point Temp *	63°C
L70 Rating @ T _a 25°C	> 170K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T _a)	-40°C ~ 55°C
Storage Temp. / Humidity	-40°C ~ 80°C / IP68 Waterproof Rated Fixture
Transient Surge Protection	6kV / 3kA (L - L, L-G)

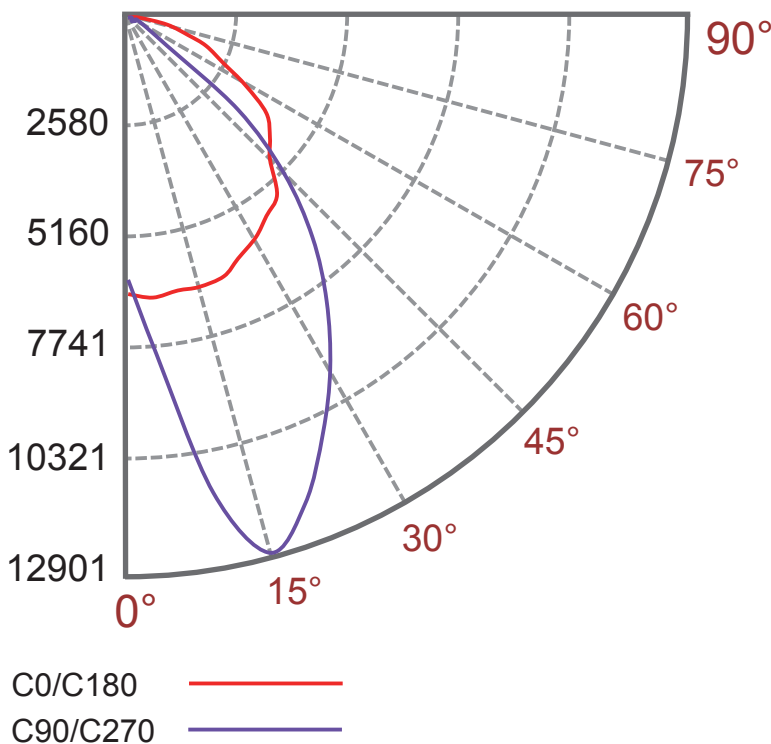
* Test data @ 25°C

NOTE: All Values Have ±7% Tolerance

NOTE: Light intensities measured directly below fixture



Light Distribution Curve



Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	5861.7	33.4%
0-40	9301.5	53.0%
0-60	14970.2	85.3%
0-90	17497.4	99.7%
0-180	17550.0	100.0%

Illumination Levels

Mounting Height	LUX	FC
4m / 13ft	400	37
5m / 16.5ft	256	24
6m / 20ft	178	16.5
7m / 23ft	130.5	12
8m / 26ft	100	9
9m / 29.5ft	79	7
10m / 33ft	64	6

IL 450 Series

LED Industrial Lighting - 150Watt - Type V Round

Specification - Type V Round Medium

Input Voltage	90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC
Fixture Watts	150 Watt
Lumens (Total) *	20,100 Lumens
Efficacy *	134 Lumens / W
LED Model	Lumileds / Nichia / Cree
Number of LEDs & Driving Current	28@480mA
CRI	70 / 80
T _s - Solder Point Temp *	59°C
L70 Rating @ T _a 25°C	> 175K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T _a)	-40°C ~ 55°C
Storage Temp. / Humidity	-40°C ~ 80°C / IP68 Waterproof Rated Fixture
Transient Surge Protection	6kV / 3kA (L - L, L-G)

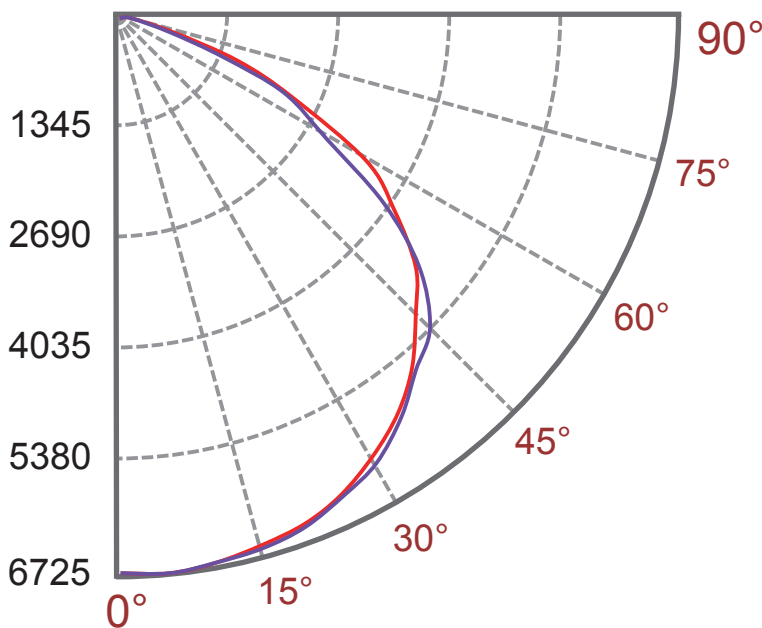
* Test data @ 25°C

NOTE: All Values Have ±7% Tolerance

NOTE: Light intensities measured directly below fixture



Light Distribution Curve



C0/C180 —
 C90/C270 —

Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	5527.5	27.5%
0-40	9286.2	46.2%
0-60	17004.6	84.6%
0-90	20100.0	100.0%
0-180	20100.0	100.0%

Illumination Levels

Mounting Height	LUX	FC
4m / 13ft	418	39
5m / 16.5ft	268	25
6m / 20ft	186	17
7m / 23ft	136.5	13
8m / 26ft	104.5	10
9m / 29.5ft	83	8
10m / 33ft	67	6

IL 450 Series

LED Industrial Lighting - 150Watt - Type V Round

Specification - Type V Round Long

Input Voltage	90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC
Fixture Watts	150 Watt
Lumens (Total) *	17,400 Lumens
Efficacy *	116 Lumens / W
LED Model	Lumileds / Nichia / Cree
Number of LEDs & Driving Current	28@480mA
CRI	70 / 80
T _s - Solder Point Temp *	59°C
L70 Rating @ T _a 25°C	> 175K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T _a)	-40°C ~ 55°C
Storage Temp. / Humidity	-40°C ~ 80°C / IP68 Waterproof Rated Fixture
Transient Surge Protection	6kV / 3kA (L - L, L-G)

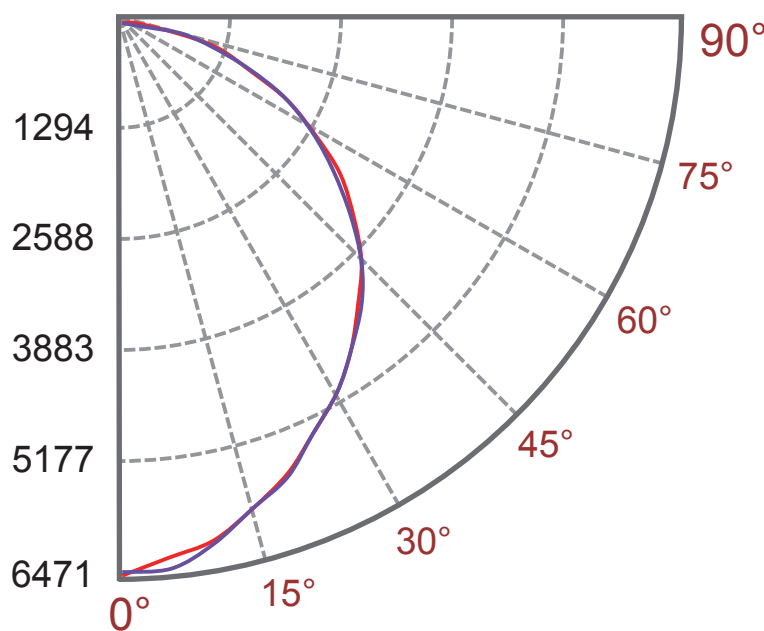
* Test data @ 25°C

NOTE: All Values Have ±7% Tolerance

NOTE: Light intensities measured directly below fixture



Light Distribution Curve



C0/C180 —
 C90/C270 —

Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	4819.8	27.7%
0-40	7795.2	44.8%
0-60	13676.4	78.6%
0-90	17330.4	99.6%
0-180	17400.0	100.0%

Illumination Levels

Mounting Height	LUX	FC
4m / 13ft	403.5	37.5
5m / 16.5ft	258	24
6m / 20ft	179.5	16.5
7m / 23ft	132	12
8m / 26ft	101	9
9m / 29.5ft	80	7.5
10m / 33ft	65	6

IL 450 Series

LED Industrial Lighting - 150Watt - Type V Frosted

Specification - Type V Frosted Long

Input Voltage	90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC
Fixture Watts	150 Watt
Lumens (Total) *	18,000 Lumens
Efficacy *	120 Lumens / W
LED Model	Lumileds / Nichia / Cree
Number of LEDs & Driving Current	28@480mA
CRI	70 / 80
T _s - Solder Point Temp *	59°C
L70 Rating @ T _a 25°C	> 175K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T _a)	-40°C ~ 55°C
Storage Temp. / Humidity	-40°C ~ 80°C / IP68 Waterproof Rated Fixture
Transient Surge Protection	6kV / 3kA (L - L, L-G)

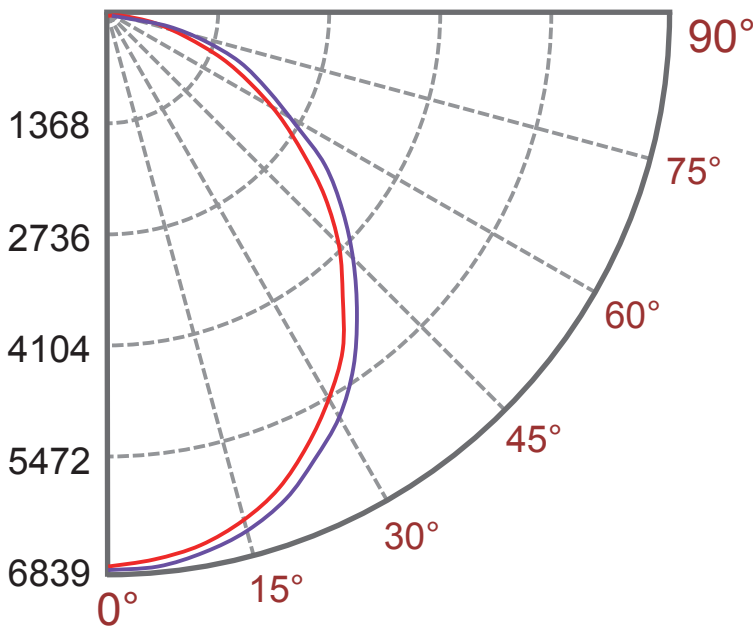
* Test data @ 25°C

NOTE: All Values Have ±7% Tolerance

NOTE: Light intensities measured directly below fixture



Light Distribution Curve



C0/C180 —
 C90/C270 —

Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	5292.0	29.4%
0-40	8532.0	47.4%
0-60	14526.0	80.7%
0-90	17928.0	99.6%
0-180	18000.0	100.0%

Illumination Levels

Mounting Height	LUX	FC
4m / 13ft	422	39
5m / 16.5ft	270	25
6m / 20ft	187.5	17.5
7m / 23ft	138	13
8m / 26ft	105.5	10
9m / 29.5ft	83	8
10m / 33ft	67.5	6

IL 450 Series

LED Industrial Lighting - 150Watt - Type V Square

Specification - Type V Square Short

Input Voltage	90-277VAC 47~63Hz (348 & 480VAC available) / 127~380VDC
Fixture Watts	150 Watt
Lumens (Total) *	20,100 Lumens
Efficacy *	134 Lumens / W
LED Model	Lumileds / Nichia / Cree
Number of LEDs & Driving Current	28@480mA
CRI	75
T _s - Solder Point Temp *	59°C
L70 Rating @ T _a 25°C	> 170K hours
Lighting Control	Dimmable (0-10V, PWM) / DALI / Daylight & Motion Sensor
Warranty	10-Year Limited
Operational Temperature (T _a)	-40°C ~ 55°C
Storage Temp. / Humidity	-40°C ~ 80°C / IP68 Waterproof Rated Fixture
Transient Surge Protection	6kV / 3kA (L - L, L-G)

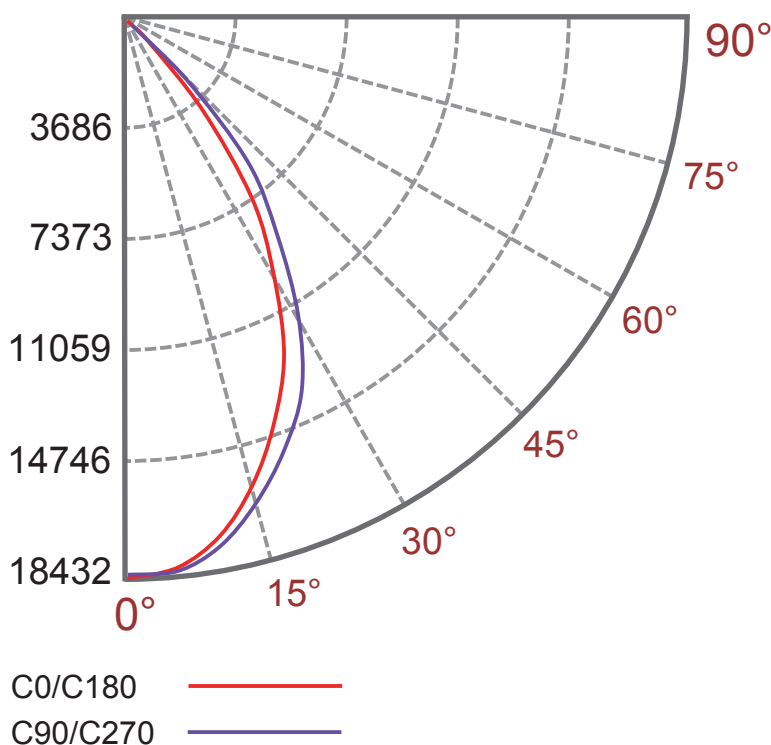
* Test data @ 25°C

NOTE: All Values Have ±7% Tolerance

NOTE: Light intensities measured directly below fixture



Light Distribution Curve



Zonal Lumen Summary

Zone (°)	Lumens	% Fixture
0-30	12080.1	60.1%
0-40	17286.0	86.0%
0-60	20019.6	99.6%
0-90	20100.0	100.0%
0-180	20100.0	100.0%

Illumination Levels

Mounting Height	LUX	FC
4m / 13ft	1151	107
5m / 16.5ft	737	68.5
6m / 20ft	511.5	47.5
7m / 23ft	376	35
8m / 26ft	288	27
9m / 29.5ft	227	21
10m / 33ft	184	17