

INTENDED USE

The specification grade 15209 is the ideal solution for warehouse, gymnasium, or other mid to high-ceiling applications where high output LED lighting is desired.

FEATURES

Construction: .064" thick spun aluminum cylinder supplied with aluminum, acrylic and polycarbonate reflector options.

Mounting: Adjustable aircraft cable with either straight or coiled cords, hard stem which can accommodate sloped ceilings with a 45° swivel.

Refactor: Acrylic prismatic refractor provides excellent efficiency, uplight component gives the illuminated space lower contrast and better uniformity. Polycarbonate refractor provides more rugged performance in an abusive environment. Aluminum heavy gauge, high purity, spun aluminum. Polyester powdercoat finish.

CRI: 80+ Standard, 90+ Optional

Voltage: 120-277V for 0-10V Dimming.
120V for TRIAC Dimming.

LED Driver: 0-10V 5-wire dims to 1% and Triac 3-wire dims to 20%.

Life-span: 50,000 hours at L70 standard.

Labels: UL, ETL, CSA, Suitable for Damp Locations. Wet location under covered ceiling.

Warranty: 5 years carefree for parts & components (labor not included)



Flat Clear Lens
(Optional)



Conical Lens
(Optional)



ORDERING INFORMATION Example: (15209-12-11L-27K-AC-WH-AC6-WH-010)

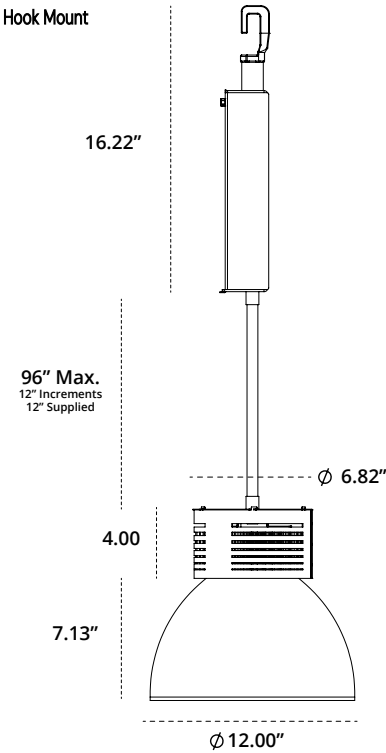
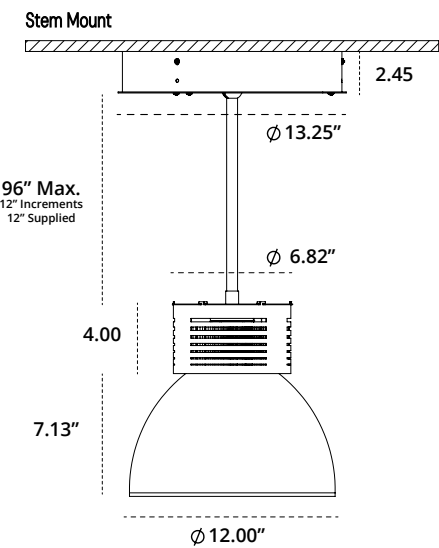
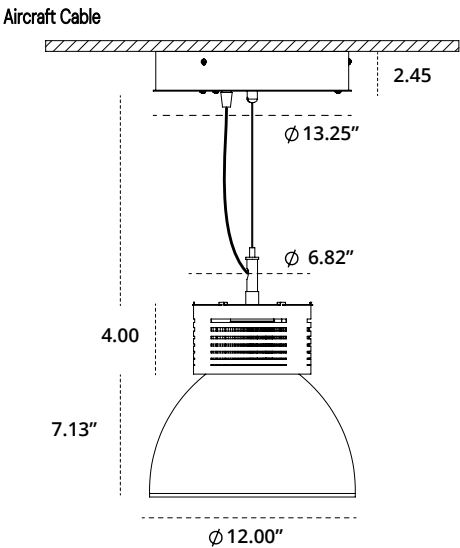
MODEL	15209		
DIAMETER	12 12" Dia.	16 16" Dia.	
LUMENS	5L 5000	10L 10000	17L ⁵ 17000
	6L 6000	12L 12000	20L ⁵ 20000
	8L 8000	15L 15000	
COLOR TEMP	27K 2700K	35K 3500K	
	30K 3000K	40K 4000K	
CRI	(Blank) 80+	9 90+	
SHADE	AL ¹ Aluminum	PL Polycarbonate	
HOUSING FINISH	WH White	BZ ² Bronze	RAL# Specify RAL # (Pg. 4)
	BK Black	SL ³ Silver	
MOUNTING	AC6 4' Aircraft Cable	ST2 2' Stem	HM2 2' Hook Mount
	AC10 10' Aircraft Cable	ST4 4' Stem	HM4 4' Hook Mount
	AC15 15' Aircraft Cable	ST8 8' Stem	HM8 8' Hook Mount
	AC20 20' Aircraft Cable		
MOUNTING FINISH	WH White	BZ ² Bronze	CC Custom
	BK Black	SL ³ Silver	
BOTTOM LENS	(Blank) Open	FL ⁶ Flat Clear Lens	CL ⁶ Conical Lens
DIMMING	O10 0-10V Dim to 1%	TRI ⁴ Triac Dim to 20%	
OPTIONS	XEM 25 Watt Emergency Battery (External) SC Safety Cable WG Wire Guard HC Die-Cast Hook, 18/5 Cord HCP Die-Cast Hook, 18/5 Cord,NEMA Twist Lock Plug		

¹ Aluminum shade matches housing finish. Interior white finish is standard.
² Bronze finish only available with stem mounting.
³ Silver finish only available with stem and aircraft cable mountings.
⁴ Not available for lumen packages from 15L-20L
⁵ Only for 16" Diameter Fixture
⁶ Not available with Aluminum Shade (AL).

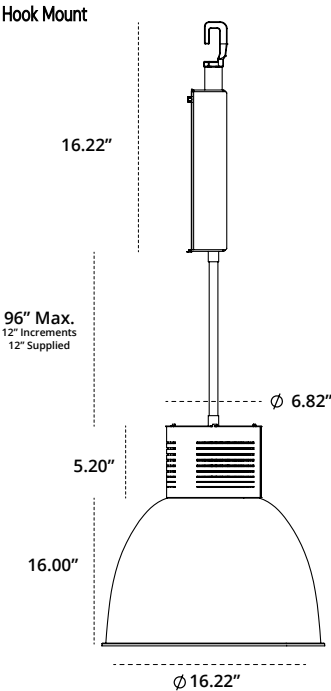
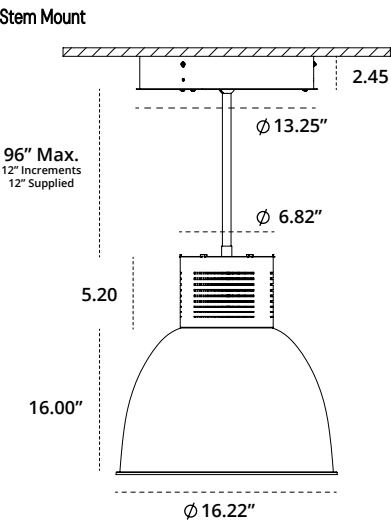
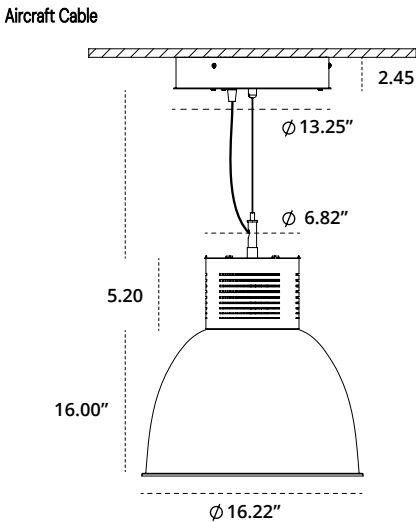
Lumens	Wattage
1100-40K	13.8
1100-27K	14.7
1500-40K	18.8
1500-27K	20.1
2000-40K	25.2
2000-27K	26.4
3000-40K	35.8
3000-27K	37.1
4000-40K	51.0
4000-27K	52.3
5000-40K	56.0
5000-27K	57.4

MOUNTING

12" FIXTURE DIMENTIONS

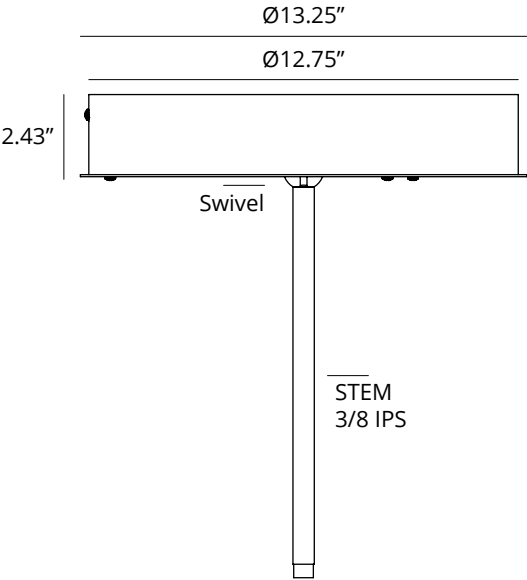


16" FIXTURE DIMENTIONS

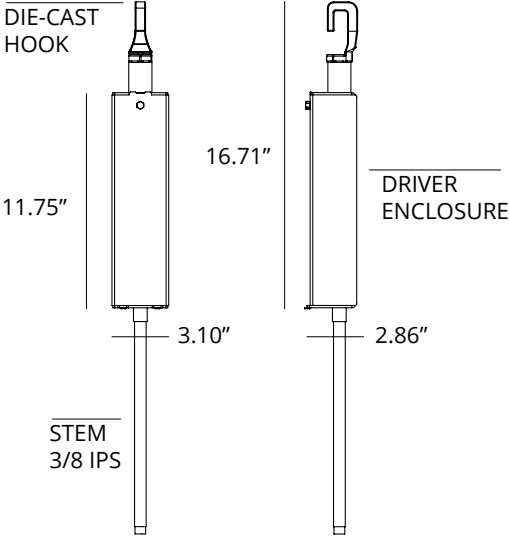


MOUNTING

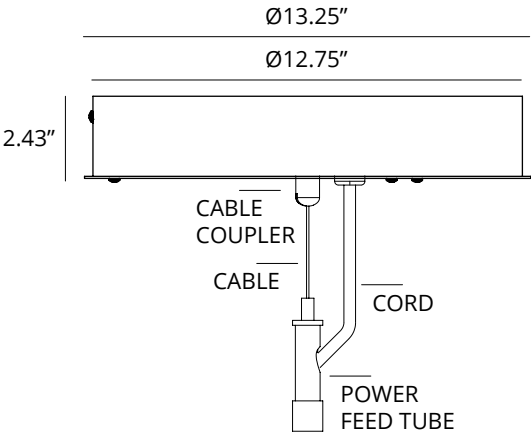
Stem Mount
Driver located in canopy.



Hook Mount
Driver located in driver enclosure.

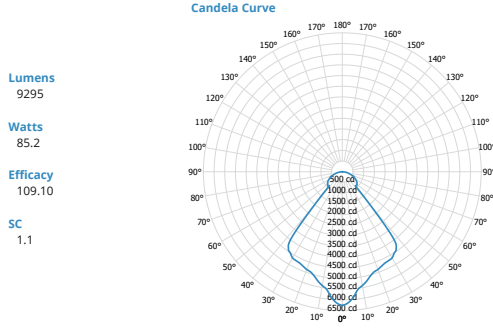


Aircraft Cable Mount
Cord & Cable Mount, fixed canopy (standard), driver located in canopy



12" PHOTOMETRY

Aluminum Shade 80°



Cone of Light

Mounting Height AFF	FC at Center on Floor	Beam Diameter
8.0 ft	98 fc	12.7 ft
10.0 ft	63 fc	15.9 ft
12.0 ft	43 fc	19.1 ft
14.0 ft	32 fc	22.3 ft
16.0 ft	24 fc	25.5 ft
20.0 ft	16 fc	31.9 ft
24.0 ft	11 fc	38.2 ft
30.0 ft	7 fc	47.8 ft

Candela Table

	0.00°
0.00°	6257
5.00°	5900
10.00°	5408
15.00°	5057
20.00°	4869
30.00°	4656
40.00°	2029
50.00°	901
60.00°	727
70.00°	472
80.00°	208
90.00°	0

Zonal Lumen Summary

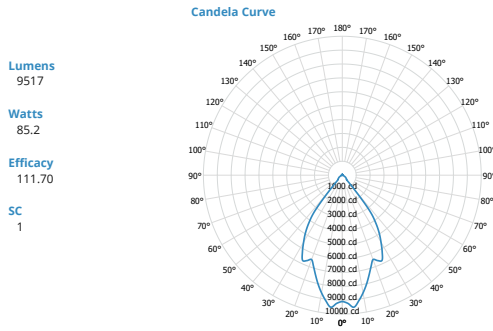
Zone	Lumens	% Luminaire
0° - 30°	4174	45%
0° - 40°	6682	72%
0° - 60°	8243	89%
60° - 90°	1053	11%
0° - 20°	1984	21%
20° - 50°	5522	59%
50° - 70°	1332	14%
70° - 90°	457	5%
0° - 90°	9295	100%
90° - 180°	0	0%
Total	9295	100%

Spacing Criterion

Height	Spacing	Light Level*
8 ft	8.8 ft	~ 98 fc
10 ft	11.0 ft	~ 63 fc
12 ft	13.2 ft	~ 43 fc
8 ft	6.6 ft	~ 174 fc
10 ft	8.3 ft	~ 111 fc
12 ft	9.9 ft	~ 77 fc
8 ft	4.4 ft	~ 391 fc
10 ft	5.5 ft	~ 250 fc
12 ft	6.6 ft	~ 174 fc

* approximate direct light level at floor based on spacing criterion overlap

Polycarbonate Shade 65°



Cone of Light

Mounting Height AFF	FC at Center on Floor	Beam Diameter
8.0 ft	142 fc	10.4 ft
10.0 ft	91 fc	13.0 ft
12.0 ft	63 fc	15.6 ft
14.0 ft	46 fc	18.2 ft
16.0 ft	36 fc	20.9 ft
20.0 ft	23 fc	26.1 ft
24.0 ft	16 fc	31.3 ft
30.0 ft	10 fc	39.1 ft

Candela Table

	0.00°
0.00°	9091
5.00°	9540
10.00°	8603
15.00°	7442
20.00°	6467
30.00°	5573
40.00°	1404
50.00°	363
60.00°	216
70.00°	90
80.00°	52
90.00°	38

Zonal Lumen Summary

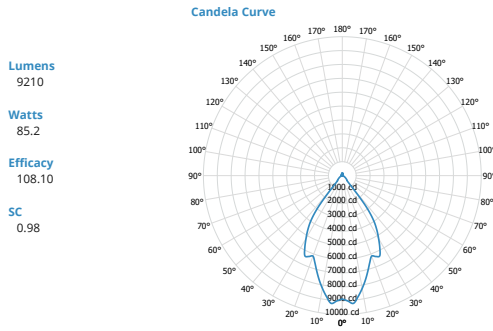
Zone	Lumens	% Luminaire
0° - 30°	5918	62%
0° - 40°	8355	88%
0° - 60°	9051	95%
60° - 90°	263	3%
0° - 20°	2964	31%
20° - 50°	5821	61%
50° - 70°	407	4%
70° - 90°	122	1%
0° - 90°	9314	98%
90° - 180°	203	2%
Total	9517	100%

Spacing Criterion

Height	Spacing	Light Level*
8 ft	8.0 ft	~ 142 fc
10 ft	10.0 ft	~ 91 fc
12 ft	12.0 ft	~ 63 fc
8 ft	6.0 ft	~ 253 fc
10 ft	7.5 ft	~ 162 fc
12 ft	9.0 ft	~ 112 fc
8 ft	4.0 ft	~ 568 fc
10 ft	5.0 ft	~ 364 fc
12 ft	6.0 ft	~ 253 fc

* approximate direct light level at floor based on spacing criterion overlap

Polycarbonate Shade - Flat Bottom Lens 65°



Cone of Light

Mounting Height AFF	FC at Center on Floor	Beam Diameter
8.0 ft	139 fc	10.2 ft
10.0 ft	89 fc	12.7 ft
12.0 ft	62 fc	15.3 ft
14.0 ft	45 fc	17.8 ft
16.0 ft	35 fc	20.4 ft
20.0 ft	22 fc	25.5 ft
24.0 ft	15 fc	30.6 ft
30.0 ft	10 fc	38.2 ft

Candela Table

	0.00°
0.00°	8893
5.00°	9230
10.00°	8245
15.00°	7111
20.00°	6171
30.00°	5223
40.00°	1086
50.00°	379
60.00°	205
70.00°	86
80.00°	51
90.00°	45

Zonal Lumen Summary

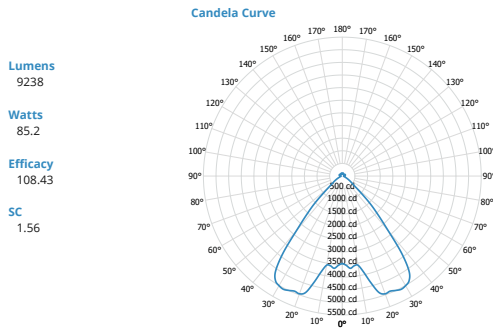
Zone	Lumens	% Luminaire
0° - 30°	5626	61%
0° - 40°	7845	85%
0° - 60°	8519	92%
60° - 90°	256	3%
0° - 20°	2840	31%
20° - 50°	5424	59%
50° - 70°	391	4%
70° - 90°	120	1%
0° - 90°	8774	95%
90° - 180°	436	5%
Total	9210	100%

Spacing Criterion

Height	Spacing	Light Level*
8 ft	7.8 ft	~ 139 fc
10 ft	9.8 ft	~ 89 fc
12 ft	11.8 ft	~ 62 fc
8 ft	5.9 ft	~ 247 fc
10 ft	7.4 ft	~ 158 fc
12 ft	8.8 ft	~ 110 fc
8 ft	3.9 ft	~ 556 fc
10 ft	4.9 ft	~ 356 fc
12 ft	5.9 ft	~ 247 fc

* approximate direct light level at floor based on spacing criterion overlap

Polycarbonate Shade - Conical Lens 80°



Cone of Light

Mounting Height AFF	FC at Center on Floor	Beam Diameter
8.0 ft	54 fc	14.0 ft
10.0 ft	35 fc	17.4 ft
12.0 ft	24 fc	20.9 ft
14.0 ft	18 fc	24.4 ft
16.0 ft	14 fc	27.9 ft
20.0 ft	9 fc	34.9 ft
24.0 ft	6 fc	41.9 ft
30.0 ft	4 fc	52.3 ft

Candela Table

	0.00°
0.00°	3465
5.00°	3666
10.00°	3587
15.00°	4374
20.00°	4962
30.00°	5012
40.00°	2830
50.00°	726
60.00°	283
70.00°	106
80.00°	52
90.00°	56

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0° - 30°	3919	42%
0° - 40°	6608	72%
0° - 60°	8265	89%
60° - 90°	311	3%
0° - 20°	1607	17%
20° - 50°	6253	68%
50° - 70°	584	6%
70° - 90°	133	1%
0° - 90°	8577	93%
90° - 180°	662	7%
Total	9238	100%

Spacing Criterion

Height	Spacing	Light Level*
8 ft	12.5 ft	~ 54 fc
10 ft	15.6 ft	~ 35 fc
12 ft	18.7 ft	~ 24 fc
8 ft	9.4 ft	~ 96 fc
10 ft	11.7 ft	~ 62 fc
12 ft	14.0 ft	~ 43 fc
8 ft	6.2 ft	~ 217 fc
10 ft	7.8 ft	~ 139 fc
12 ft	9.4 ft	~ 96 fc

* approximate direct light level at floor based on spacing criterion overlap

MULTIPLIER

CRI	Multiplier	Kelvin	Multiplier
80	1	3000K	0.975
90	0.84	3500K	1
		4000K	1.035
		5000K	1.098

16" PHOTOMETRY

Aluminum Shade 70°

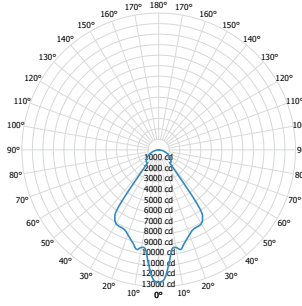
Lumens
14976

Watts
112

Efficacy
133.71

SC
0.88

Candela Curve



Cone of Light

Mounting Height AFF	FC at Center on Floor	Beam Diameter
8.0 ft	197 fc	11.4 ft
10.0 ft	126 fc	14.2 ft
12.0 ft	88 fc	17.0 ft
14.0 ft	64 fc	19.9 ft
16.0 ft	49 fc	22.7 ft
20.0 ft	32 fc	28.4 ft
24.0 ft	22 fc	34.1 ft
30.0 ft	14 fc	42.6 ft

Candela Table

	0.00°
0.00°	12607
5.00°	10945
10.00°	9415
15.00°	9259
20.00°	8573
30.00°	8091
40.00°	1720
50.00°	1531
60.00°	1167
70.00°	732
80.00°	325
90.00°	0

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0° - 30°	7396	49%
0° - 40°	10848	72%
0° - 60°	13328	89%
60° - 90°	1648	11%
0° - 20°	3584	24%
20° - 50°	8525	57%
50° - 70°	2154	14%
70° - 90°	712	5%
0° - 90°	14976	100%
90° - 180°	0	0%
Total	14976	100%

Spacing Criterion

Height	Spacing	Light Level*
8 ft	7.0 ft	~ 197 fc
10 ft	8.8 ft	~ 126 fc
12 ft	10.6 ft	~ 88 fc
8 ft	5.3 ft	~ 350 fc
10 ft	6.6 ft	~ 224 fc
12 ft	7.9 ft	~ 156 fc
8 ft	3.5 ft	~ 788 fc
10 ft	4.4 ft	~ 504 fc
12 ft	5.3 ft	~ 350 fc

* approximate direct light level at floor based on spacing criterion overlap

Polycarbonate Shade 60°

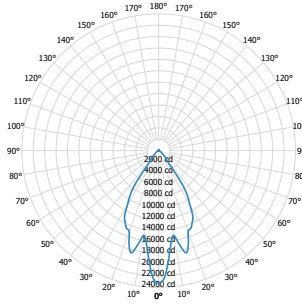
Lumens
19347

Watts
156

Efficacy
124.02

SC
0.82

Candela Curve



Cone of Light

Mounting Height AFF	FC at Center on Floor	Beam Diameter
8.0 ft	364 fc	8.9 ft
10.0 ft	233 fc	11.1 ft
12.0 ft	162 fc	13.4 ft
14.0 ft	119 fc	15.6 ft
16.0 ft	91 fc	17.8 ft
20.0 ft	58 fc	22.3 ft
24.0 ft	40 fc	26.7 ft
30.0 ft	26 fc	33.4 ft

Candela Table

	0.00°
0.00°	23305
5.00°	19401
10.00°	15087
15.00°	18565
20.00°	15117
30.00°	10936
40.00°	2407
50.00°	800
60.00°	429
70.00°	198
80.00°	59
90.00°	37

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0° - 30°	12784	66%
0° - 40°	16809	87%
0° - 60°	18570	96%
60° - 90°	471	2%
0° - 20°	6527	34%
20° - 50°	11496	59%
50° - 70°	847	4%
70° - 90°	170	1%
0° - 90°	19041	98%
90° - 180°	306	2%
Total	19347	100%

Spacing Criterion

Height	Spacing	Light Level*
8 ft	6.6 ft	~ 364 fc
10 ft	8.2 ft	~ 233 fc
12 ft	9.8 ft	~ 162 fc
8 ft	4.9 ft	~ 647 fc
10 ft	6.1 ft	~ 414 fc
12 ft	7.4 ft	~ 288 fc
8 ft	3.3 ft	~ 1457 fc
10 ft	4.1 ft	~ 932 fc
12 ft	4.9 ft	~ 647 fc

* approximate direct light level at floor based on spacing criterion overlap

Polycarbonate Shade - Flat Bottom Lens 60°

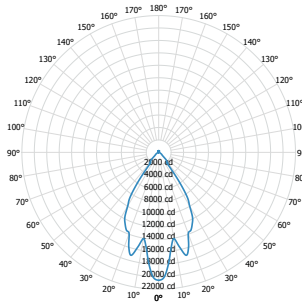
Lumens
18076

Watts
156

Efficacy
115.87

SC
0.86

Candela Curve



Cone of Light

Mounting Height AFF	FC at Center on Floor	Beam Diameter
8.0 ft	322 fc	9.1 ft
10.0 ft	206 fc	11.3 ft
12.0 ft	143 fc	13.6 ft
14.0 ft	105 fc	15.9 ft
16.0 ft	80 fc	18.1 ft
20.0 ft	51 fc	22.7 ft
24.0 ft	36 fc	27.2 ft
30.0 ft	23 fc	34.0 ft

Candela Table

	0.00°
0.00°	20589
5.00°	18018
10.00°	14090
15.00°	17133
20.00°	13917
30.00°	9962
40.00°	2279
50.00°	803
60.00°	427
70.00°	202
80.00°	67
90.00°	51

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0° - 30°	11762	65%
0° - 40°	15197	84%
0° - 60°	16945	94%
60° - 90°	491	3%
0° - 20°	6037	33%
20° - 50°	10361	57%
50° - 70°	851	5%
70° - 90°	188	1%
0° - 90°	17437	96%
90° - 180°	639	4%
Total	18076	100%

Spacing Criterion

Height	Spacing	Light Level*
8 ft	6.9 ft	~ 322 fc
10 ft	8.6 ft	~ 206 fc
12 ft	10.3 ft	~ 143 fc
8 ft	5.2 ft	~ 572 fc
10 ft	6.4 ft	~ 366 fc
12 ft	7.7 ft	~ 254 fc
8 ft	3.4 ft	~ 1287 fc
10 ft	4.3 ft	~ 824 fc
12 ft	5.2 ft	~ 572 fc

* approximate direct light level at floor based on spacing criterion overlap

Polycarbonate Shade - Conical Lens 80°

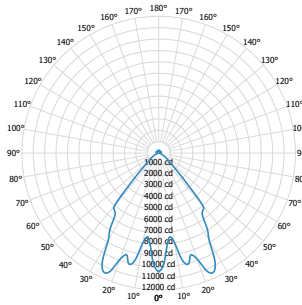
Lumens
17746

Watts
156

Efficacy
113.76

SC
1.21

Candela Curve



Cone of Light

Mounting Height AFF	FC at Center on Floor	Beam Diameter
8.0 ft	163 fc	13.6 ft
10.0 ft	104 fc	17.0 ft
12.0 ft	72 fc	20.4 ft
14.0 ft	53 fc	23.8 ft
16.0 ft	41 fc	27.2 ft
20.0 ft	26 fc	34.0 ft
24.0 ft	18 fc	40.7 ft
30.0 ft	12 fc	50.9 ft

Candela Table

	0.00°
0.00°	10408
5.00°	8244
10.00°	7986
15.00°	10073
20.00°	9911
30.00°	8879
40.00°	6012
50.00°	1278
60.00°	591
70.00°	251
80.00°	85
90.00°	76

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0° - 30°	8434	48%
0° - 40°	12858	72%
0° - 60°	15916	90%
60° - 90°	635	4%
0° - 20°	3499	20%
20° - 50°	11608	65%
50° - 70°	1205	7%
70° - 90°	239	1%
0° - 90°	16550	93%
90° - 180°	1196	7%
Total	17746	100%

Spacing Criterion

Height	Spacing	Light Level*
8 ft	9.7 ft	~ 163 fc
10 ft	12.1 ft	~ 104 fc
12 ft	14.5 ft	~ 72 fc
8 ft	7.3 ft	~ 289 fc
10 ft	9.1 ft	~ 185 fc
12 ft	10.9 ft	~ 128 fc
8 ft	4.8 ft	~ 651 fc
10 ft	6.0 ft	~ 416 fc
12 ft	7.3 ft	~ 289 fc

* approximate direct light level at floor based on spacing criterion overlap

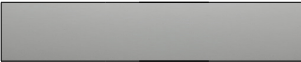
MULTIPLIER

CRI	Multiplier	Kelvin	Multiplier
80	1	3000K	0.975
90	0.84	3500K	1
		4000K	1.035
		5000K	1.098

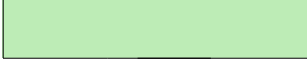
Available Finishes

Set up fee and longer lead time will be applied on custom finishes.

Metropolitan

	Black	RAL #9011
	Silver	RAL #9022
	Asher Grey	RAL #7004
	Mason	RAL #7039
	Slate	RAL #7031
	Tech Grey	RAL #7016
	Chocolate Spice	RAL #8017
	Urban Native	RAL #8025
	Carmin	RAL #8028
	Reseda Green	RAL #6011

Vibrant

	Violet Dreams	RAL #4006
	Purple Red	RAL #3004
	Carmine Red	RAL #3002
	Rose	RAL #3017
	Pure Orange	RAL #2004
	Traffic Yellow	RAL #1023
	Daisy	RAL #1018
	Antique Spring	RAL #6019
	Island Skye	RAL #6027
	Sky Blue	RAL #5015

COLOR TEMPERATURE GUIDE

