



ASCENT

ARCHITECTURAL LIGHTING

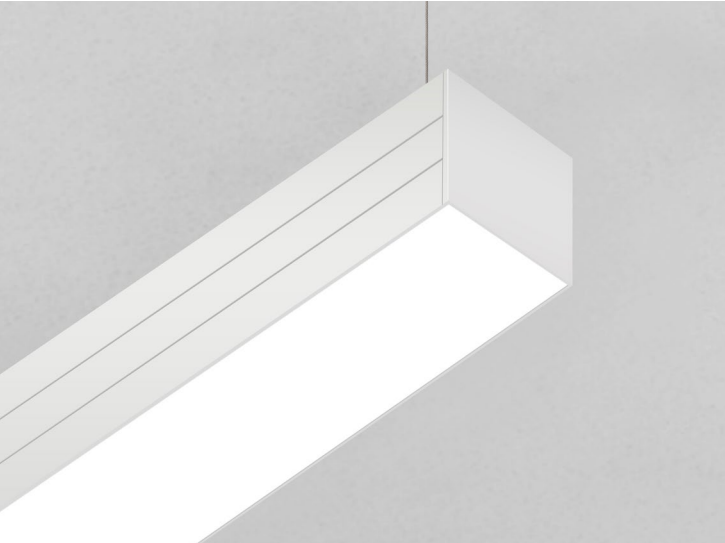
PROJECT

DATE

COMMENTS



IN STOCK



ENERGY CHART — 100% DIRECT

LENS	SIZE	DELIVERED LUMENS (100% Direct)	WATTAGE	EFFICACY
Diffuser	2	1100 / 1650 / 2200	10W / 15W / 20W	110
	3	1650 / 2530 / 3300	15W / 23W / 30W	110
	4	2200 / 3300 / 4400	20W / 30W / 40W	110
	8	4400 / 6600 / 8800	40W / 60W / 80W	110
Regressed	2	900 / 1350 / 1800	10W / 15W / 20W	90
	3	1350 / 2070 / 2700	15W / 23W / 30W	90
	4	1800 / 2700 / 3600	20W / 30W / 40W	90
	8	3600 / 5400 / 7200	40W / 60W / 80W	90

ENERGY CHART — 50% DIRECT/50% INDIRECT

LENS	SIZE	DELIVERED LUMENS (50% Indirect, 50% Direct)	WATTAGE	EFFICACY
Diffuser	2	1200 / 1800 / 2400	10W / 15W / 20W	120
	3	1800 / 2760 / 3600	15W / 23W / 30W	120
	4	2400 / 3600 / 4800	20W / 30W / 40W	120
	8	4800 / 7200 / 9600	40W / 60W / 80W	120
Regressed	2	1000 / 1500 / 2000	10W / 15W / 20W	100
	3	1500 / 2300 / 3000	15W / 23W / 30W	100
	4	2000 / 3000 / 4000	20W / 30W / 40W	100
	8	4000 / 6000 / 8000	40W / 60W / 80W	100

SUMMIT 38 P 3.8" ARCHITECTURAL LINEAR PENDANT LED

Summit 3.8 is a sleek, architectural linear LED luminaire that combines modern aesthetics with high-performance illumination. Summit 3.8 P, designed for suspended applications, offers seven field-selectable direct/indirect distribution patterns, giving designers maximum flexibility from a single fixture. Available in 2', 3', 4', and 8' lengths that can be connected for continuous runs up to 40', Summit 3.8 P can also form custom shapes with illuminated corners. With field-selectable wattage and color temperature, it's built to adapt beautifully to any environment.

- Commercial Office
- Classrooms
- Civic & Transportation

PHYSICAL

Material	Extruded Aluminum
Mounting	Pendant
Optics	Diffuser, Regressed
Finish	Black, White

PERFORMANCE

Warranty	5 years
Certifications	Damp Location, cULus
Rated Life	50,000 hours
Operating Temperature	-4° to 104° F (-20°C to 40°C)
THD	<20%
CCT	Field Selectable: 3000K, 3500K, 4000K
CRI	80, 90
Distribution	Field Selectable: 100% Direct, 100% Indirect, 50% Indirect/ 50% Direct, 90% Indirect/10% Direct, 30% Indirect/70% Direct, 70% Indirect/30% Direct, 10% Indirect/90% Direct

ELECTRICAL

Wattage	Field Selectable: 10/15/20W, 15/23/30W, 20/30/40W, 40/60/80W
Voltage	110-277V
Power Factor	>0.9
LED Driver	Class 2 High Efficiency
Dimming	0-10V to 1% 1-10V to 10%



ORDERING LOGIC

EX: SUMMIT-38-P-2-FS2-UNV-FS-80-D10-DF-FS7-BK-F-RDWH

FAMILY	SIZE	MOUNTING	LENGTH		WATTAGE		VOLTAGE		CCT		CRI		DIMMING			
SUMMIT	38	P					UNV		FS							
	38	3.8"	P	Pendant	2	2'	FS2	Field Selectable 10W / 15W / 20W	UNV	110-277V	FS	Field Selectable 3000K / 3500K / 4000K	80	80 CRI	D10	Dim to 10%
					3	3'	FS3	Field Selectable 15W / 23W / 30W					90*	90 CRI	D01	Dim to 1%
					4	4'	FS4	Field Selectable 20W / 30W / 40W								
					8	8'	FS8	Field Selectable 40W / 60W / 80W								
LENS TYPE			DISTRIBUTION					FINISH		CEILING TYPE			CANOPY			
DF	Diffuser		FS7	Field Selectable 100% Direct, 100% Indirect, 50% Indirect/50% Direct, 90% Indirect/10% Direct, 30% Indirect/70% Direct, 70% Indirect/30% Direct, 10% Indirect/ 90% Direct				BK	Black	F	9/16" or 15/16" Flat		RDWH	Round White		
RL	Regressed Lens							WH	White	D	Drywall		SQWH	Square White		
			D	100% Direct						S916	9/16" Slot		RDBK	Round Black		
										S1516	15/16" Slot		SQBK	Square Black		

CABLE LENGTH

ORDERING NOTES

* Made To Order (6-8 Week Lead Time for 90 CRI)

- C04WH 4' White Power Cord & 5' Aircraft Cable
- C12WH 12' White Power Cord & 12' Aircraft Cable
- C04BK 4' Black Power Cord & 5' Aircraft Cable
- C12BK 12' White Power Cord & 12' Aircraft Cable

ACCESSORIES ORDERING LOGIC (ORDER SEPARATELY)

EX: SUMMIT-38-EM8-I

FAMILY	ACCESSORIES
SUMMIT-38	
EM8-I	8W Integral Emergency Battery BUILT-IN INDICATOR (4' & 8' SECTIONS ONLY)
EM8-EC	8W External Emergency Battery WALL/CEILING PLATE OR ROUND CANOPY INDICATOR (6' MAXIMUM RUN)
EM25-EC	25W External Emergency Battery WALL/CEILING PLATE OR ROUND CANOPY INDICATOR (20' MAXIMUM RUN)
OS-P	Occupancy Sensor INTEGRAL, INSTALLED IN CANOPY
SJ	Straight Line Joiner
LJ	Lit Corner Joiner
40RL-DF	Seamless Diffuser, 40' Roll FOR CONTINUOUS RUNS
40RL-RL	Seamless Regressed Lens, 40' Roll FOR CONTINUOUS RUNS

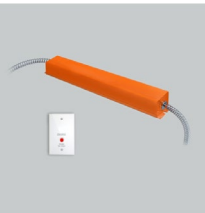
ACCESSORIES



EM8-I
8W Integral
Emergency Battery
(Built-in Indicator; 4'
& 8' Only)



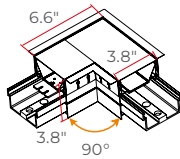
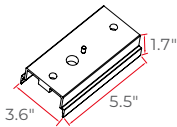
EM8-EC/EM25-EC
8W or 25W External Emergency Battery
(Wall/Ceiling Plate or Round Canopy Indicator)



OS-P
Occupancy Sensor
(Integral, Installed in
Canopy)



SJ
Straight Line Joiner



LJ
Lit Corner Joiner



40RL-DF & 40RL-RL
Seamless Diffuser/
Regressed Lens, 40'
Roll





SPECIFICATIONS

DISTRIBUTION

100% direct distribution. Field selectable distribution by dip switch for pendant mounting includes: 100% Direct, 100% Indirect, 50% Indirect/50% Direct, 90% Indirect/10% Direct, 30% Indirect/70% Direct, 70% Indirect/30% Direct, 10% Indirect/90% Direct.

CONSTRUCTION

Extruded aluminum housing

FINISH

Powder coat white or black finish

ELECTRICAL

LED Driver: Class 2 high efficiency LED driver with 0-10V to 1% or 1-10V to 10% that works with many types of controls. Compatible with the following types of controls:

- Leviton IP710-DL
- Lutron Diva-Dv tv

THD: <20%

Power Factor: >0.9

Input Voltage: 110-277V

MOUNTING

Pendant

LED SYSTEM

CRI: Minimum 80 color rendering index.

CCT: Field selectable CCT by dip switch 3000K, 3500K, and 4000K.

LED: Rated life is 50,000 hours with 87.8% of lumen maintenance in 25°C ambient temperature, in compliance with IES LM-80 testing measurements.

APPROVALS

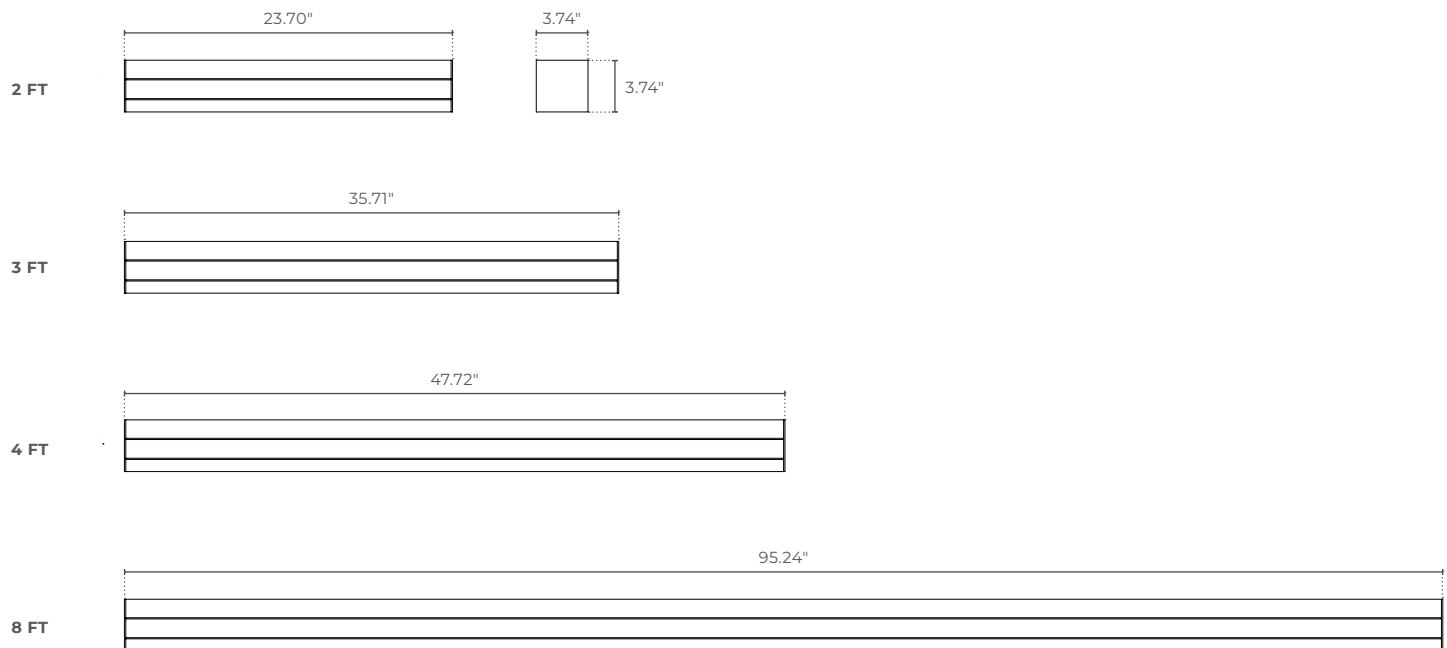
- cULus listed for damp locations
- 5 years limited warranty

OPTIONAL FUNCTION

Emergency Option: Optional 110-277V emergency LED driver for lighting up to 120 minutes in event of power failure, meets critical life-safety lighting requirements.

Field selectable wattage by dip switch adjusts wattage to 100%, 75%, and 50%.

DIMENSIONS





MOUNTING

CANOPY STYLE

Available in Black & White



1.6" Round
(Non Power Feed)



4.5" Round
(Power Feed)



**4.5" Round with
Emergency Driver**
(Non Power Feed)



**5.8" Round with
Occupancy Driver**
(Power Feed)



1.6" Square
(Non Power Feed)



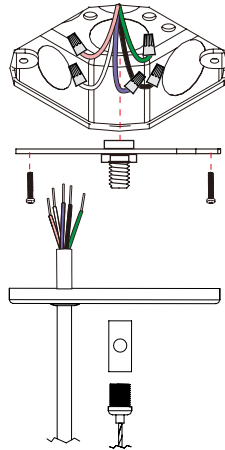
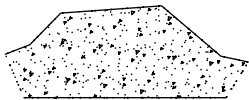
4.5" Square
(Power Feed)



**4.5" Square with
Emergency Driver**
(Non Power Feed)

DRY CEILING

"Various Hard Ceilings" (Mount to J-Box)



DROP CEILING

Suspending the luminaire in the T-grid. Compatible for various T-grid, including 9/16" Flat, 9/16" Slot, 15/16" Flat.



* Please see the installation instruction for more details.



9/16" Flat Ceiling



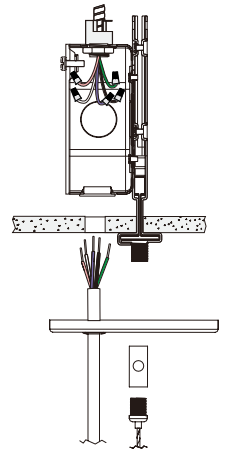
15/16" Flat Ceiling



9/16" Slot Ceiling



15/16" Slot Ceiling



PENDANT ACCESSORIES FOR DRY CEILING

CANOPY KITS



POWER CORD KITS



4 FT Standard
(12 FT Available)

AIRCRAFT CABLE KITS



5 FT Standard
(12 FT Available)

PENDANT ACCESSORIES FOR DROP CEILING

CANOPY KITS



JUNCTION BOX



POWER CORD KITS



4 FT Standard
(12 FT Available)

AIRCRAFT CABLE KITS



5 FT Standard
(12 FT Available)

T-GRID CLIPS



For 9/16" and 15/16"
Flat Ceiling
(2 Clips/Set)



For 9/16" Slot
Ceiling
(2 Clips/Set)



For 15/16" Slot
Ceiling
(2 Clips/Set)



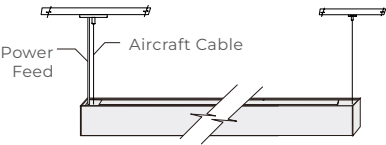


CONTINUOUS RUNS

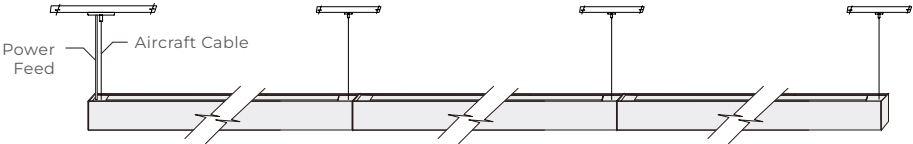
STANDARD LINE RUNS IN 120V

LUMINAIRE RUN LENGTH feet	RUN CONFIGURATION	LINE JOINER	5' POWER CABLE	5' AIRCRAFT CABLE	CANOPY
2	2'	-	1	2	2
4	4'	-	1	2	2
6	4'+2'	1	1	3	3
8	8'	-	1	2	2
10	8'+2'	1	1	3	3
12	8'+4'	1	1	3	3
14	8'+4'+2'	2	1	4	4
16	8'+8'	1	1	3	3
18	8'+8'+2'	2	1	4	4
20	8'+8'+4'	2	1	4	4
22	8'+8'+4'+2'	3	1	5	5
24	8'+8'+8'	2	1	4	4
26	8'+8'+8'+2'	3	1	5	5
28	8'+8'+8'+4'	3	1	5	5
30	8'+8'+8'+4'+2'	4	1	6	6
32	8'+8'+8'+8'	3	1	5	5
34	8'+8'+8'+8'+2'	4	1	6	6
36	8'+8'+8'+8'+4'	4	1	6	6
38	8'+8'+8'+8'+4'+2'	5	1	7	7
40	8'+8'+8'+8'+8'	4	1	6	6

INDIVIDUAL

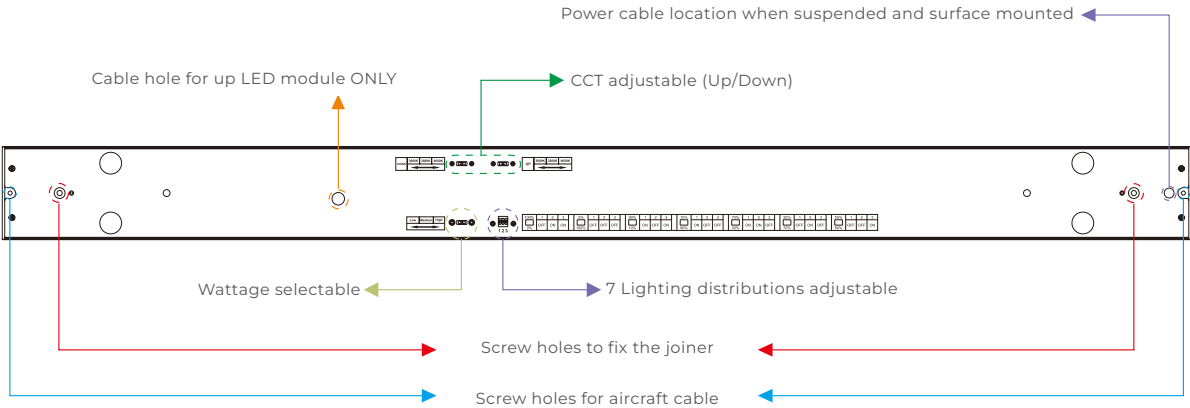


CONTINUOUS RUNS



120VAC: Connections up to 40ft
277VAC: Connections up to 100 ft.

MOUNTING LOCATION





EMERGENCY OPTION

Ascent Architectural Lighting offers UL & CEC Listed LED emergency drivers. They could be factory installed or field installed. When AC power fails it, immediately switches to the emergency mode operating for lighting minimum 90 minutes. When AC power is restored it, automatically returns to the charging mode which meets critical life-safety lighting requirements.

EM8-I 8W Integral Emergency Battery

Ascent Architectural Lighting offers the LED luminaire with built-in 8w LED emergency driver to provide critical illumination when normal power fails for any reason. It can save your labor cost with simple wiring.



SPECIFICATION FOR LED EMERGENCY DRIVER

Output Power	8 Watts
Output Voltage	15-54V DC
Input Current	70 mA (Max)
Input Power	3.2 Watts (Max)
Input Voltage	110-277VAC, 50-60Hz
Emergency Operation	≥90 minutes
Standby Power	<0.4W
Operating Temp	-32°F to 122°F (0°C to 50°C)
Battery	Lithium
Recharge	24 Hrs
Certificate	UL , CEC

EM8-EC/EM25-EC

8W or 25W External Emergency Battery

Optional 8w or 25w high voltage LED emergency driver can be provided if you need and do it wiring in field. For more info or spec sheet please contact sales.



CODE REQUIRED TESTING

Initial Self-Test After Installation

It will perform a functional test in 3 seconds after the driver installed to check the wiring and battery output when work. The indicator LED will be off or flicker in case of a failure or an error.

Second Self-Test In 120 Minutes

It will perform second test in 120 minutes to check again. Upgrade in Gen 3: Repeat 4 times in every 120 minutes if fail in the second test.

Monthly Self-Test

It will automatically perform a test every 30 days with a duration of 3 seconds, in which the wiring and battery output are checked. In case of a failure or an error, the indicator LED will be off or flicker.

OCCUPANCY SENSOR



OS-P

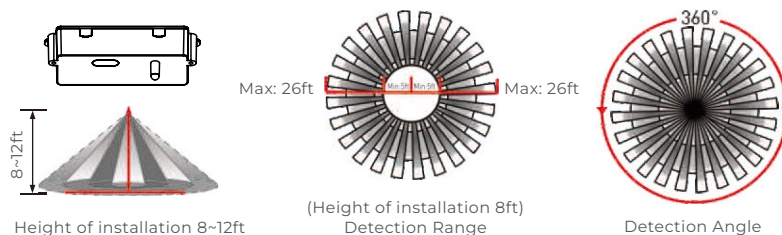
Integral Occupancy Sensor

Factory-installed integrated sensor system for multi-level control based on motion and/or daylight contribution with BR1810-B-D level & daylight harvest microwave sensor from SHARKWARD. For more info or spec sheet , please contact sales.

SPECIFICATION

Power Supply	120/277 VAC 50/60Hz
Maximum load @ -40°F~+158°F (-40°C~+70°C)	Resistive/ Tungsten-600W@120V Electronic Ballast(LED)-800VA@120V/1200VA@277V
HF System	5.8GHz CW
Dim Control Output	0-10V,max.25mA sinking current
Detection Radius/angle	Max 26ft.(8m)/360
Mounting Height	Max 12ft
Humidity	Max.95% RH
Temperature	-40°F to 158°F (-40°C to 70°C)

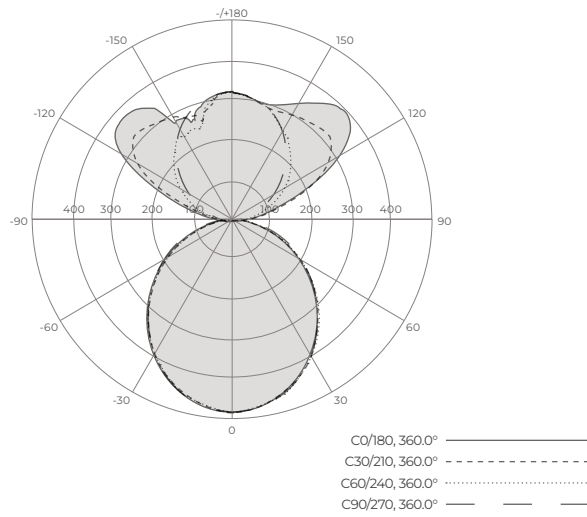
SENSOR COVERAGE





PHOTOMETRICS - 2' - Diffuser Lens - 3500K - 50% Indirect/50% Direct Distribution

AVERAGE BEAM ANGLE (50%): 360.0°



Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	3219	5692
80	4464	5640
75	5324	5651
70	5931	6242
65	6413	6642
60	6746	6958
55	7009	7180
50	7227	7400
45	7422	7630

ZONAL FLUX DIAGRAM

T	C0	C45	C90	C135	C180
5°	480.0	476.3	475.6	476.2	479.9
10°	471.7	467.1	468.3	467.1	471.4
15°	458.1	455.4	461.1	455.4	457.7
20°	439.9	441.7	440.2	441.7	439.4
25°	417.5	417.6	419.2	418.0	416.9
30°	391.8	391.0	398.3	391.9	390.9
35°	363.0	363.6	368.0	365.3	362.0
40°	332.1	334.9	337.8	337.3	330.9
45°	299.2	299.6	307.5	302.5	297.9
50°	264.8	264.9	271.1	266.9	261.4
55°	229.1	230.5	234.7	229.9	225.7
60°	192.3	191.6	198.3	186.2	189.0
65°	154.5	153.7	160.0	144.2	151.5
70°	115.6	116.0	121.7	105.9	113.7
75°	78.55	78.56	83.37	71.61	76.61
80°	44.19	44.90	55.82	40.99	42.31
85°	15.99	28.09	28.28	21.25	14.41
90°	15.22	11.90	0.7287	2.242	12.51
95°	35.04	33.20	12.77	23.78	37.18
100°	60.69	54.28	24.80	45.12	64.58
105°	99.67	93.03	36.84	82.14	106.0
110°	158.5	132.5	60.57	120.4	165.6
115°	227.6	168.8	84.29	158.5	234.9
120°	299.8	200.0	108.0	193.0	306.6
125°	356.5	225.4	134.4	221.7	357.3
130°	387.1	241.2	160.9	239.8	372.3
135°	393.9	254.1	187.3	254.6	373.5
140°	381.2	265.5	210.7	267.3	365.7
145°	359.2	269.4	234.1	271.3	343.0
150°	339.3	273.3	257.4	274.3	281.6
155°	320.4	279.9	272.5	279.5	283.2
160°	307.7	289.3	287.6	288.6	266.4
165°	304.0	297.1	302.7	296.4	296.3
170°	309.1	306.7	308.3	306.0	312.3
175°	317.2	314.2	313.8	314.1	320.0
180°	319.4	319.4	319.4	319.4	322.4

DEG LUMINOUS INTENSITY: cd

ZONAL LUMEN
SUMMARY

T	Φ TOTAL
0-5	11.45
5-10	45.19
10-15	99.93
15-20	173.6
20-25	263.1
25-30	365.1
30-35	476.2
35-40	592.0
40-45	708.9
45-50	822.9
50-55	929.9
55-60	1026
60-65	1109
65-70	1176
70-75	1225
75-80	1257
80-85	1275
85-90	1283
90-95	1293
95-100	1312
100-105	1344
105-110	1395
110-115	1465
115-120	1555
120-125	1657
125-130	1766
130-135	1874
135-140	1976
140-145	2069
145-150	2152
150-155	2224
155-160	2284
160-165	2332
165-170	2367
170-175	2390
175-180	2397

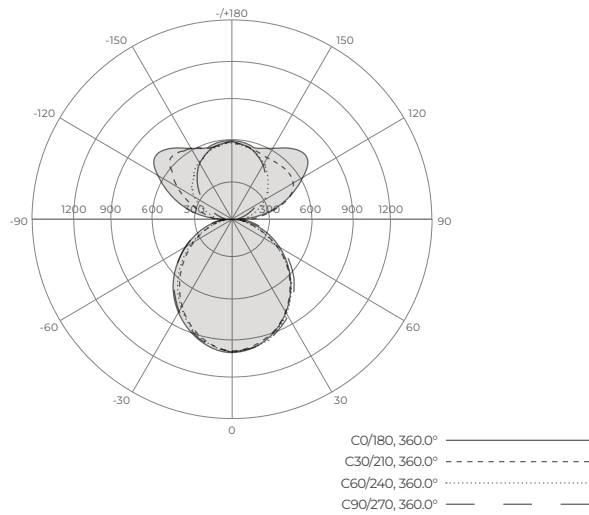
UNIT: lm





PHOTOMETRICS - 4' - Diffuser Lens - 3500K - 50% Indirect/50% Direct Distribution

AVERAGE BEAM ANGLE (50%): 360.0°



Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	4134	6472
80	5140	6321
75	5942	6302
70	6484	6860
65	6878	7244
60	7174	7554
55	7415	7731
50	7615	7921
45	7797	8131

ZONAL FLUX DIAGRAM

T	C0	C45	C90	C135	C180
5°	1001	995.5	994.1	993.2	997.5
10°	985.9	979.4	982.7	976.1	978.0
15°	959.5	957.4	971.4	954.2	948.0
20°	922.8	930.4	930.2	928.7	908.6
25°	877.6	881.1	889.1	881.4	860.7
30°	824.9	825.2	847.9	828.4	805.8
35°	766.0	767.4	785.6	774.5	744.9
40°	702.0	705.4	723.4	715.9	679.5
45°	634.0	626.7	661.2	626.9	610.3
50°	562.9	547.9	585.6	529.5	537.9
55°	489.1	468.4	509.9	436.6	462.9
60°	412.5	375.5	434.3	356.4	385.9
65°	334.3	283.5	352.1	288.2	307.2
70°	255.0	196.2	269.8	229.0	226.0
75°	176.9	116.2	187.6	174.8	149.1
80°	102.6	50.45	126.2	123.9	79.05
85°	41.43	51.97	64.87	78.05	24.44
90°	39.66	55.80	3.506	33.07	18.92
95°	78.44	118.6	25.48	37.75	58.94
100°	134.8	178.6	47.45	43.61	93.80
105°	222.7	247.3	69.43	98.71	179.3
110°	345.7	310.6	113.6	166.4	288.0
115°	481.7	359.1	157.7	257.7	439.9
120°	610.5	395.5	201.8	362.8	579.1
125°	697.6	426.6	250.0	459.6	701.3
130°	736.0	446.3	298.1	529.3	799.8
135°	728.7	463.7	346.3	577.7	830.5
140°	693.0	480.9	387.2	608.6	814.5
145°	653.3	492.5	428.2	609.9	767.4
150°	618.0	508.6	469.1	602.6	711.4
155°	586.7	530.3	496.6	592.2	654.0
160°	566.5	551.7	524.1	581.7	608.0
165°	563.9	559.8	551.5	565.4	580.4
170°	572.6	567.6	561.7	563.1	572.6
175°	579.6	575.3	572.0	572.0	580.0
180°	582.2	582.2	582.2	582.2	584.4
DEG	LUMINOUS INTENSITY: cd				

ZONAL LUMEN
SUMMARY

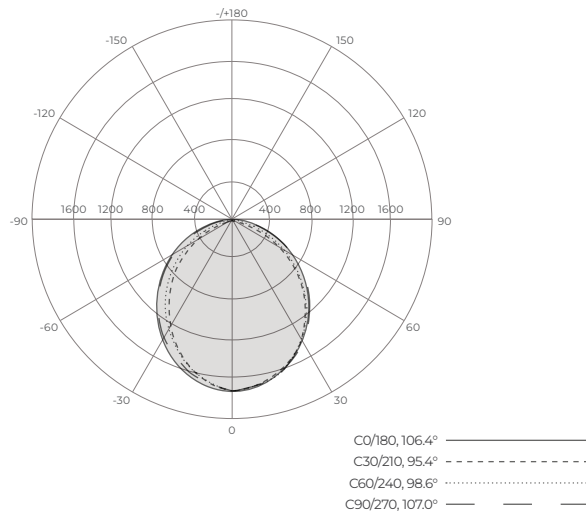
T	Φ TOTAL
0-5	23.83
5-10	94.07
10-15	208.0
15-20	361.3
20-25	547.5
25-30	760.0
30-35	991.2
35-40	1233
40-45	1476
45-50	1712
50-55	1932
55-60	2129
60-65	2298
65-70	2434
70-75	2535
75-80	2603
80-85	2649
85-90	2678
90-95	2707
95-100	2752
100-105	2820
105-110	2918
110-115	3052
115-120	3217
120-125	3409
125-130	3617
130-135	3827
135-140	4028
140-145	4213
145-150	4378
150-155	4519
155-160	4636
160-165	4728
165-170	4794
170-175	4835
175-180	4849
UNIT: lm	





PHOTOMETRICS - 4' - Diffuser Lens - 4000K - 100% Direct Distribution

AVERAGE BEAM ANGLE (50%): 101.8°



Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	6701	10147
80	8688	9980
75	10052	9975
70	11029	11089
65	11724	11840
60	12254	12430
55	12681	12815
50	13038	13202
45	13358	13607

ZONAL FLUX DIAGRAM

T	C0	C45	C90	C135	C180
5°	1722	1709	1706	1706	1717
10°	1695	1677	1682	1675	1684
15°	1649	1636	1658	1635	1633
20°	1585	1586	1584	1590	1565
25°	1506	1493	1510	1512	1484
30°	1416	1387	1436	1427	1389
35°	1314	1275	1326	1342	1285
40°	1203	1156	1216	1249	1173
45°	1086	1014	1106	1091	1054
50°	963.8	871.8	975.9	918.6	929.4
55°	836.5	728.6	845.3	758.1	800.3
60°	704.6	572.0	714.7	619.5	667.5
65°	569.8	418.6	575.4	499.1	532.1
70°	433.8	276.3	436.2	396.8	395.5
75°	299.2	151.4	296.9	306.5	259.8
80°	173.5	46.97	199.3	221.0	138.4
85°	67.17	24.98	101.7	141.2	42.14
90°	4.654	5.485	4.104	62.49	68.39
95°	1.536	5.339	4.131	35.95	0.5650
100°	1.517	5.168	4.158	9.947	0.6159
105°	1.447	4.856	4.186	6.647	0.8541
110°	1.527	4.510	4.608	7.029	1.120
115°	1.756	4.298	5.031	6.921	1.423
120°	2.026	4.097	5.454	6.481	1.648
125°	2.316	3.844	5.632	6.146	1.937
130°	2.260	3.626	5.810	5.352	2.180
135°	2.578	3.737	5.988	4.750	2.455
140°	2.914	4.015	5.998	4.398	2.693
145°	3.184	4.449	6.008	4.322	2.908
150°	3.413	4.788	6.017	4.397	3.132
155°	3.684	4.857	5.831	4.608	3.342
160°	3.880	5.161	5.644	4.747	3.501
165°	4.043	5.122	5.458	4.799	3.655
170°	4.201	4.855	5.089	4.749	3.763
175°	4.272	4.593	4.720	4.531	3.879
180°	4.351	4.351	4.351	4.351	3.912
DEG	LUMINOUS INTENSITY: cd				

ZONAL LUMEN
SUMMARY

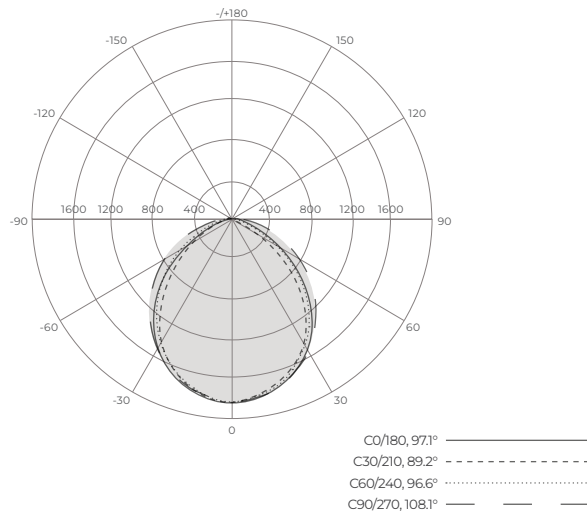
T	Φ TOTAL
0-5	40.97
5-10	161.6
10-15	357.0
15-20	619.7
20-25	938.7
25-30	1303
30-35	1698
35-40	2111
40-45	2527
45-50	2930
50-55	3305
55-60	3641
60-65	3927
65-70	4157
70-75	4328
75-80	4445
80-85	4520
85-90	4561
90-95	4577
95-100	4583
100-105	4585
105-110	4587
110-115	4588
115-120	4590
120-125	4591
125-130	4593
130-135	4594
135-140	4595
140-145	4596
145-150	4599
150-155	4993
155-160	4599
160-165	4600
165-170	4601
170-175	4601
175-180	4601
UNIT: lm	





PHOTOMETRICS - 4' - Regressed Lens - 4000K - 100% Direct Distribution

AVERAGE BEAM ANGLE (50%): 97.7°



Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	2140	11169
80	2443	10994
75	2503	10991
70	3594	12087
65	5970	12833
60	8299	13425
55	10218	13860
50	11728	14292
45	12936	14741

ZONAL FLUX DIAGRAM

T	C0	C45	C90	C135	C180
5°	1844	1830	1829	1833	1846
10°	1813	1795	1802	1801	1817
15°	1762	1750	1776	1760	1768
20°	1692	1696	1700	1712	1701
25°	1604	1597	1623	1630	1615
30°	1503	1482	1547	1537	1517
35°	1375	1360	1427	1443	1391
40°	1216	1221	1308	1341	1237
45°	1043	1026	1188	1167	1068
50°	859.4	824.4	1047	960.3	887.0
55°	668.1	618.5	906.3	761.5	696.4
60°	473.1	407.2	765.3	619.8	501.8
65°	287.6	210.6	618.3	495.8	313.7
70°	140.1	85.22	471.3	377.4	154.7
75°	73.86	42.76	324.3	259.9	74.73
80°	48.37	15.51	217.6	156.1	50.32
85°	21.26	10.24	111.0	91.92	19.49
90°	0.3408	5.919	4.309	30.73	33.60
95°	1.064	5.784	4.648	18.96	0.2241
100°	0.8826	5.639	4.987	7.401	0.2941
105°	1.037	5.661	5.325	6.332	0.4668
110°	1.060	5.707	5.471	6.991	0.7184
115°	1.144	5.779	5.616	7.362	0.9612
120°	1.471	5.958	5.762	7.493	1.246
125°	1.826	6.163	6.060	7.618	1.582
130°	2.223	5.832	6.359	7.328	1.946
135°	2.606	5.315	6.658	7.276	2.301
140°	2.951	4.907	6.806	7.306	2.656
145°	3.254	4.563	6.953	8.106	2.964
150°	3.539	4.632	7.101	8.777	3.263
155°	3.819	4.740	6.945	9.270	3.510
160°	4.085	4.700	6.789	8.961	3.743
165°	4.389	4.666	6.633	6.924	3.870
170°	4.696	5.081	5.987	5.937	4.028
175°	4.696	5.034	5.342	5.248	4.122
180°	4.696	4.696	4.696	4.696	4.174

DEG LUMINOUS INTENSITY: cd

ZONAL LUMEN
SUMMARY

T	Φ TOTAL
0-5	43.99
5-10	173.7
10-15	384.1
15-20	667.4
20-25	1012
25-30	1405
30-35	1832
35-40	2273
40-45	2710
45-50	3123
50-55	3492
55-60	3805
60-65	4053
65-70	4238
70-75	4366
75-80	4446
80-85	4493
85-90	4514
90-95	4522
95-100	4526
100-105	4528
105-110	4529
110-115	4531
115-120	4533
120-125	4535
125-130	4536
130-135	4538
135-149	4540
140-145	4541
145-150	4543
150-155	4544
155-160	4545
160-165	4546
165-170	4546
170-175	4547
175-180	4547

UNIT: lm

