

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P563086

Luminaire Tested: **SQ4-PC3-150U-050D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563086
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-150U-050D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

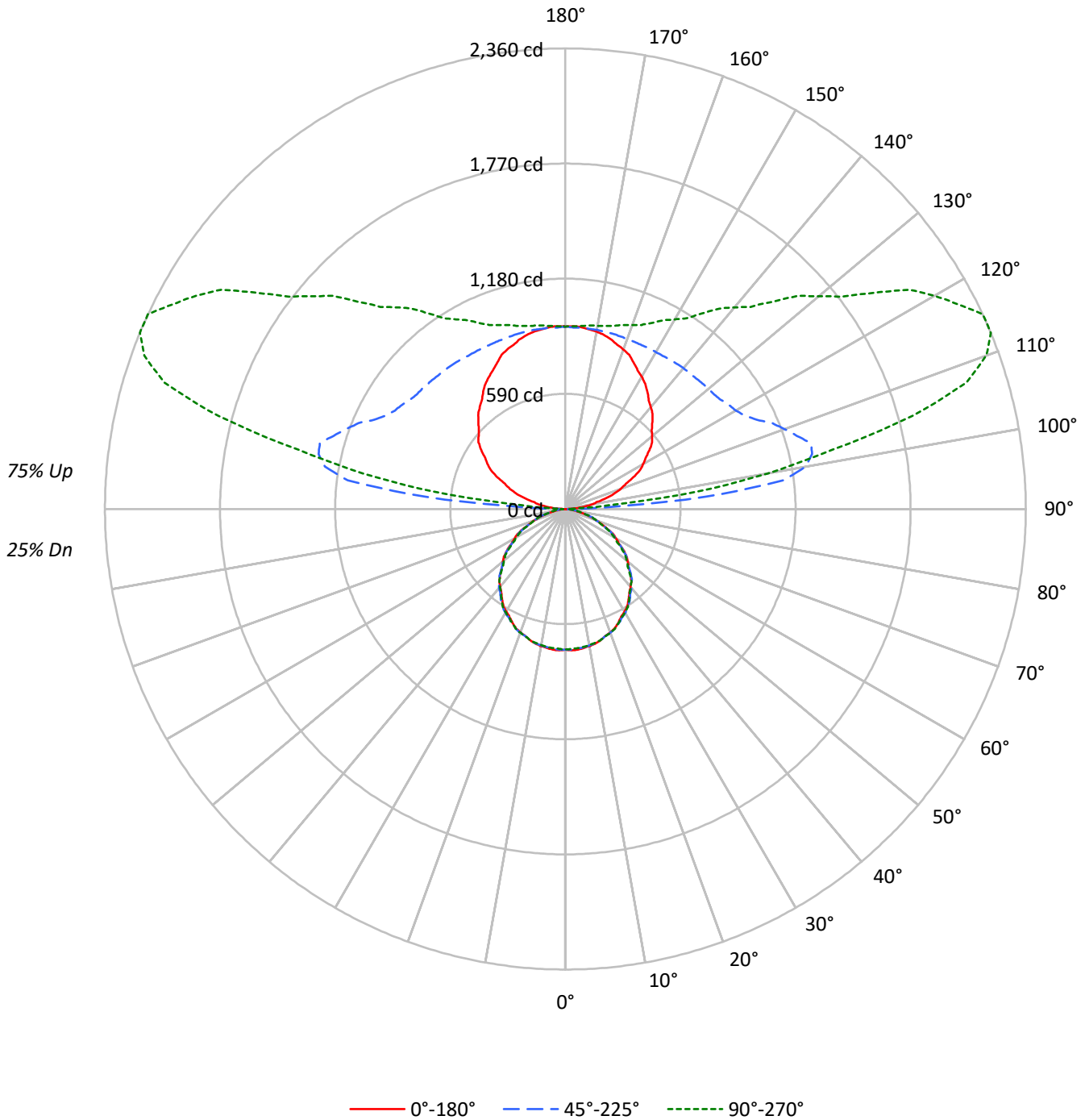
Lumens per Lamp: N/A
Luminaire Lumens: 7993.9 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	25
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21
2	84	77	71	66	74	69	64	59	53	50	47	39	37	35	26	24	23	17
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	23	21	20	15
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	13
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	39	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10
7	54	42	35	29	48	38	31	27	30	25	22	22	19	16	15	13	11	8
8	50	38	31	26	44	34	28	24	27	22	19	20	17	15	14	12	10	8
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	13	11	9	7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6653	6653	6653
5°	6703	6660	6635
10°	6686	6655	6637
15°	6652	6652	6645
20°	6608	6627	6627
25°	6546	6593	6572
30°	6466	6544	6516
35°	6369	6467	6422
40°	6264	6353	6288
45°	6151	6194	6099
50°	5990	5990	5894
55°	5799	5725	5638
60°	5519	5408	5322
65°	5102	4999	4956
70°	4467	4502	4483
75°	3593	3975	4000
80°	2556	3369	3406
85°	1556	2826	2826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	0.9
10°-20°	195.8	2.4
20°-30°	296.6	3.7
30°-40°	355.6	4.4
40°-50°	362.5	4.5
50°-60°	316.5	4.0
60°-70°	226.6	2.8
70°-80°	116.7	1.5
80°-90°	31.5	0.4
90°-100°	434.2	5.4
100°-110°	1174.0	14.7
110°-120°	1234.3	15.4
120°-130°	1002.6	12.5
130°-140°	786.5	9.8
140°-150°	603.6	7.6
150°-160°	434.1	5.4
160°-170°	265.2	3.3
170°-180°	89.4	1.1
0°-30°	560.6	7.0
0°-40°	916.2	11.5
0°-60°	1595.2	20.0
0°-90°	1969.9	24.6
90°-120°	2842.6	35.6
90°-150°	5235.3	65.5
90°-180°	6024.0	75.4
0°-180°	7993.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	721	721	721	721	721	
5°	724	717	719	717	716	69
15°	696	690	696	696	696	196
25°	643	638	648	646	646	296
35°	566	564	574	570	570	354
45°	471	470	475	469	467	363
55°	360	356	356	350	350	321
65°	234	228	229	227	227	231
75°	101	105	112	112	112	109
85°	15	22	27	27	27	20
90°	2	6	13	14	13	5
95°	67	236	722	374	222	71
105°	218	337	1302	1921	1842	230
115°	384	470	1080	2091	2360	379
125°	526	603	974	1643	1930	469
135°	631	705	947	1326	1502	487
145°	733	788	934	1135	1222	459
155°	828	860	926	1019	1052	382
165°	901	910	930	967	972	254
175°	935	934	931	943	941	89
180°	934	934	934	934	934	

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CATALOG NUMBER: SQ4-PC3-150U-050D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	721.1	721.1	721.1	721.1	721.1
2.5°	725.4	719.1	721.1	719.4	716.8
5°	723.7	716.6	719.1	717.1	716.4
7.5°	718.5	711.4	714.7	713.3	712.7
10°	713.7	706.6	710.4	709.0	708.4
12.5°	707.3	700.7	705.1	703.7	703.6
15°	696.4	690.5	696.4	696.4	695.7
17.5°	682.6	677.3	683.6	683.9	683.6
20°	673.0	667.1	675.0	674.4	675.0
22.5°	661.3	656.4	664.9	663.1	663.8
25°	643.0	638.4	647.6	645.6	645.6
27.5°	621.3	618.1	628.1	626.0	626.0
30°	606.9	603.6	614.3	611.6	611.6
32.5°	590.9	588.7	598.8	595.6	595.6
35°	565.5	564.2	574.2	570.2	570.2
37.5°	539.3	538.2	547.2	542.4	540.8
40°	520.1	519.5	527.5	522.1	522.1
42.5°	500.9	500.2	507.2	500.7	500.7
45°	471.4	470.1	474.7	468.7	467.4
47.5°	439.2	437.9	440.8	434.2	433.6
50°	417.3	416.0	417.3	411.3	410.6
52.5°	394.9	392.5	392.7	386.7	386.6
55°	360.5	356.0	355.9	350.5	350.5
57.5°	324.2	318.2	318.7	314.2	313.5
60°	299.1	292.6	293.1	289.1	288.4
62.5°	274.5	267.0	268.5	264.0	263.9
65°	233.7	228.5	229.0	227.0	227.0
67.5°	194.4	189.6	193.1	191.5	191.4
70°	165.6	162.3	166.9	166.9	166.2
72.5°	138.9	138.7	144.5	144.5	144.9
75°	100.8	105.4	111.5	112.2	112.2
77.5°	67.3	75.4	82.1	82.4	82.3
80°	48.1	57.2	63.4	64.7	64.1
82.5°	32.6	42.2	47.4	48.7	48.1
85°	14.7	22.5	26.7	27.4	26.7
87.5°	4.7	10.2	13.3	13.5	12.2
90°	2.0	5.9	13.1	14.1	13.1
92.5°	28.6	104.1	205.4	89.2	64.6
95°	67.4	236.5	722.1	373.7	222.3
97.5°	108.2	271.3	1125.6	931.5	684.1
100°	138.8	285.3	1251.1	1304.8	1055.0
102.5°	167.0	304.8	1295.4	1587.8	1401.0
105°	218.2	337.2	1302.4	1921.2	1842.5
107.5°	265.7	374.3	1245.5	2129.1	2155.3
110°	302.7	401.1	1194.8	2185.0	2296.1



TEST NUMBER: P563086

CATALOG NUMBER: SQ4-PC3-150U-050D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	335.7	427.8	1148.1	2173.8	2360.5
115°	384.2	469.7	1080.2	2091.0	2360.5
117.5°	431.7	511.9	1035.3	1964.5	2269.9
120°	460.6	539.3	1008.8	1873.7	2185.5
122.5°	488.0	565.1	992.7	1776.4	2090.5
125°	526.0	602.7	973.6	1642.9	1930.0
127.5°	561.0	636.3	962.3	1533.9	1786.4
130°	580.3	658.0	957.5	1466.5	1694.7
132.5°	600.4	677.3	952.6	1405.8	1615.8
135°	630.6	705.3	947.4	1326.5	1501.6
137.5°	661.0	731.6	943.0	1262.2	1404.8
140°	681.9	747.8	941.4	1220.8	1347.7
142.5°	702.0	764.0	938.1	1183.5	1294.6
145°	733.2	788.2	934.3	1135.4	1222.0
147.5°	761.5	810.3	929.9	1091.9	1158.4
150°	782.5	825.7	928.3	1068.3	1121.4
152.5°	801.8	839.5	927.5	1046.4	1090.0
155°	827.7	860.2	926.3	1018.6	1052.0
157.5°	854.7	877.3	926.5	999.2	1021.2
160°	870.0	888.6	927.3	987.0	1002.7
162.5°	882.0	897.6	928.1	977.2	989.0
165°	901.1	910.0	930.3	966.6	971.5
167.5°	914.2	920.3	930.5	957.5	959.9
170°	922.3	925.2	931.3	953.4	953.4
172.5°	928.7	929.3	931.3	948.6	947.8
175°	935.3	934.3	931.3	943.3	941.4
177.5°	937.5	935.2	931.1	939.1	936.7
180°	934.3	934.3	934.3	934.3	934.3

(END OF REPORT)