

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: P562715

Luminaire Tested: **SQ4-PC3-075U-050D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562715
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PC3-075U-050D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

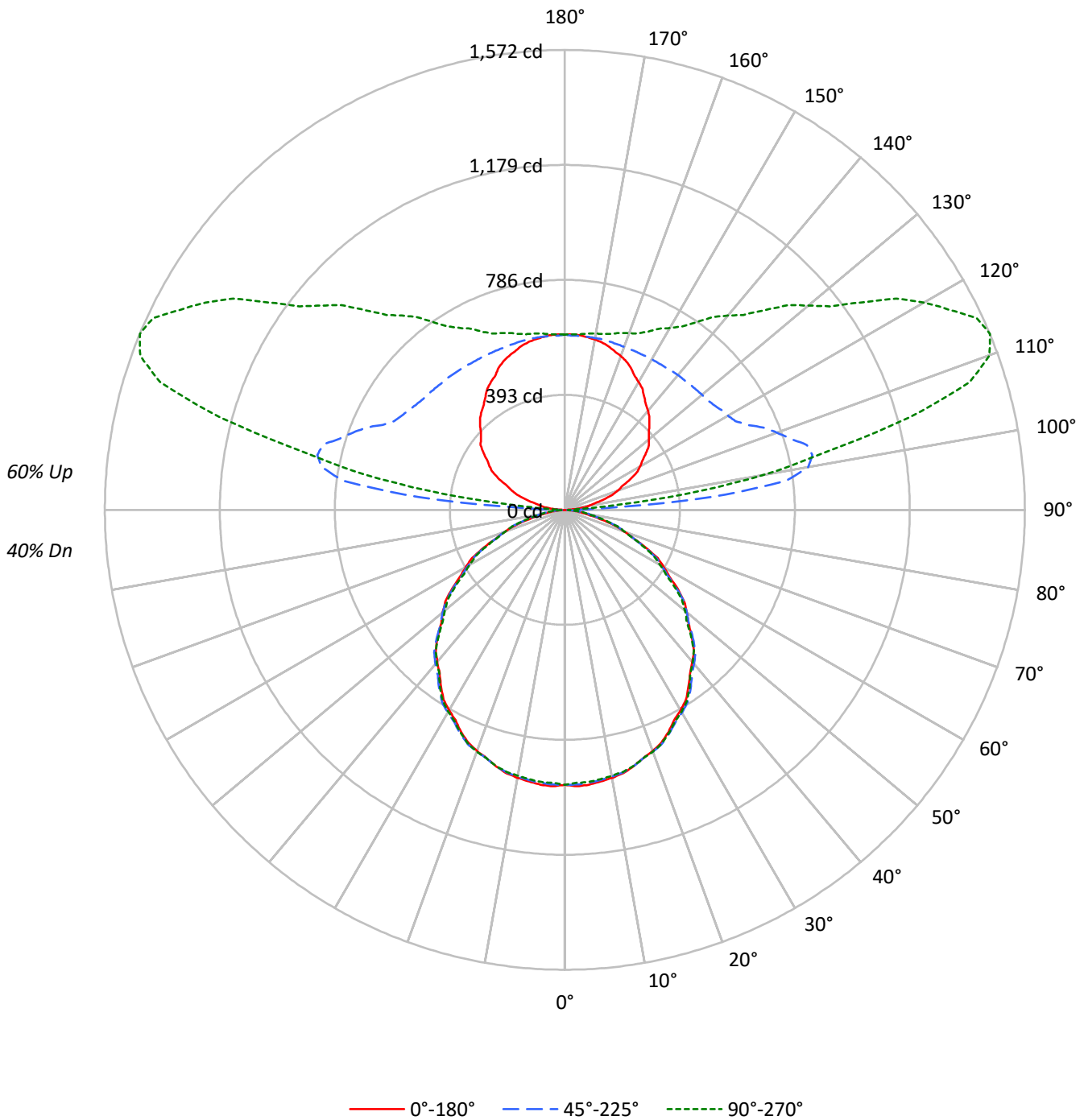
Lumens per Lamp: N/A
Luminaire Lumens: 6468.4 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 54.3
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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	41	40	39	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	36	35	33	28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	72	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	66	55	47	41	60	50	43	38	42	36	32	33	30	27	26	23	21	18
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	21	19	15
7	56	44	37	31	51	41	34	29	34	29	25	27	23	21	21	19	16	14
8	52	40	33	27	47	37	30	25	31	26	22	25	21	18	20	17	15	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	33	26	22	41	31	25	20	26	21	17	21	17	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5781	5781	5781
5°	5824	5787	5765
10°	5810	5783	5767
15°	5779	5779	5774
20°	5742	5759	5759
25°	5687	5729	5711
30°	5618	5686	5661
35°	5535	5620	5580
40°	5443	5520	5464
45°	5344	5382	5298
50°	5205	5205	5121
55°	5039	4974	4900
60°	4795	4699	4624
65°	4433	4344	4307
70°	3881	3911	3897
75°	3123	3453	3474
80°	2221	2929	2958
85°	1348	2456	2456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.9	1.4
10°-20°	255.2	3.9
20°-30°	386.5	6.0
30°-40°	463.4	7.2
40°-50°	472.5	7.3
50°-60°	412.5	6.4
60°-70°	295.3	4.6
70°-80°	152.1	2.4
80°-90°	40.0	0.6
90°-100°	282.5	4.4
100°-110°	777.2	12.0
110°-120°	802.2	12.4
120°-130°	642.7	9.9
130°-140°	504.8	7.8
140°-150°	386.9	6.0
150°-160°	278.2	4.3
160°-170°	170.1	2.6
170°-180°	57.3	0.9
0°-30°	730.7	11.3
0°-40°	1194.1	18.5
0°-60°	2079.1	32.1
0°-90°	2566.5	39.7
90°-120°	1861.9	28.8
90°-150°	3396.4	52.5
90°-180°	3902.0	60.3
0°-180°	6468.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	940	940	940	940	940	
5°	943	934	937	935	934	90
15°	908	900	908	908	907	256
25°	838	832	844	842	842	386
35°	737	735	748	743	743	461
45°	614	613	619	611	609	473
55°	470	464	464	457	457	419
65°	305	298	298	296	296	301
75°	131	137	145	146	146	142
85°	19	29	35	36	35	26
90°	1	5	9	12	12	4
95°	42	154	500	214	136	44
105°	139	214	856	1304	1217	146
115°	246	300	687	1368	1552	243
125°	339	386	623	1054	1235	302
135°	409	454	605	852	965	316
145°	473	505	596	726	782	296
155°	535	553	593	653	672	246
165°	579	586	595	619	623	163
175°	599	600	596	604	603	57
180°	599	599	599	599	599	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	939.8	939.8	939.8	939.8	939.8
2.5°	945.4	937.2	939.8	937.6	934.2
5°	943.3	933.9	937.2	934.6	933.7
7.5°	936.5	927.1	931.5	929.7	928.8
10°	930.2	920.9	925.9	924.1	923.3
12.5°	921.9	913.2	918.9	917.2	917.0
15°	907.6	900.0	907.6	907.6	906.7
17.5°	889.7	882.7	890.9	891.4	890.9
20°	877.2	869.5	879.8	878.9	879.8
22.5°	861.8	855.5	866.5	864.3	865.1
25°	838.0	832.0	844.1	841.5	841.5
27.5°	809.8	805.5	818.7	815.9	815.9
30°	791.0	786.8	800.6	797.1	797.1
32.5°	770.1	767.2	780.4	776.2	776.2
35°	737.1	735.4	748.4	743.1	743.1
37.5°	702.9	701.4	713.2	706.9	704.9
40°	677.9	677.0	687.5	680.5	680.5
42.5°	652.8	652.0	661.0	652.6	652.6
45°	614.4	612.7	618.7	610.8	609.1
47.5°	572.4	570.7	574.5	566.0	565.1
50°	543.9	542.2	543.9	536.0	535.2
52.5°	514.6	511.6	511.8	504.0	503.8
55°	469.9	463.9	463.8	456.9	456.9
57.5°	422.6	414.7	415.4	409.5	408.6
60°	389.8	381.3	382.0	376.8	375.9
62.5°	357.8	348.0	350.0	344.1	343.9
65°	304.6	297.8	298.5	295.9	295.9
67.5°	253.4	247.1	251.7	249.6	249.4
70°	215.8	211.6	217.5	217.5	216.7
72.5°	181.0	180.8	188.3	188.3	188.8
75°	131.4	137.4	145.3	146.2	146.2
77.5°	87.7	98.3	107.0	107.4	107.2
80°	62.7	74.6	82.7	84.4	83.5
82.5°	42.5	55.1	61.8	63.5	62.7
85°	19.1	29.4	34.8	35.7	34.8
87.5°	5.8	12.7	15.7	16.2	14.8
90°	1.3	5.0	8.9	11.5	11.5
92.5°	17.6	75.2	130.2	50.0	41.0
95°	42.1	154.2	499.5	213.6	136.4
97.5°	68.6	171.0	762.3	587.4	414.4
100°	87.9	181.4	844.9	852.8	695.8
102.5°	106.3	193.8	866.3	1058.0	914.0
105°	138.9	213.7	856.4	1304.2	1217.0
107.5°	170.0	238.3	807.7	1424.8	1450.7
110°	192.4	254.7	771.0	1454.8	1544.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	212.8	273.1	734.3	1435.5	1572.1
115°	246.0	299.5	686.9	1367.8	1552.2
117.5°	277.6	326.9	656.8	1272.7	1481.3
120°	296.9	344.3	643.6	1201.5	1417.1
122.5°	314.3	361.6	634.4	1139.1	1343.7
125°	339.0	386.3	623.2	1054.2	1234.9
127.5°	362.4	407.5	615.8	983.3	1141.8
130°	374.7	420.8	611.7	941.2	1085.8
132.5°	388.9	435.0	608.6	904.2	1034.8
135°	409.1	453.9	605.3	852.5	964.7
137.5°	427.9	469.5	602.5	810.8	903.3
140°	442.2	480.8	601.5	783.1	866.6
142.5°	454.4	490.1	599.5	758.3	829.9
145°	472.8	505.2	596.4	726.4	782.5
147.5°	492.4	520.3	594.9	698.1	743.0
150°	504.6	529.6	593.9	682.6	717.5
152.5°	515.9	538.8	592.8	669.2	698.1
155°	535.2	552.7	592.6	652.9	671.6
157.5°	549.2	563.5	592.6	639.5	652.5
160°	559.4	570.7	592.6	632.3	642.3
162.5°	567.6	576.8	593.6	626.1	634.1
165°	578.6	586.0	595.1	619.4	623.2
167.5°	586.2	591.9	596.4	613.8	614.8
170°	591.3	595.0	596.4	611.7	611.7
172.5°	595.4	597.1	596.4	608.6	607.6
175°	598.9	600.2	596.4	604.0	602.8
177.5°	600.0	600.0	595.9	602.0	600.0
180°	598.9	598.9	598.9	598.9	598.9

(END OF REPORT)