

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: P562907

Luminaire Tested: **SQ4-PC3-100U-050D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562907  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PC3-100U-050D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

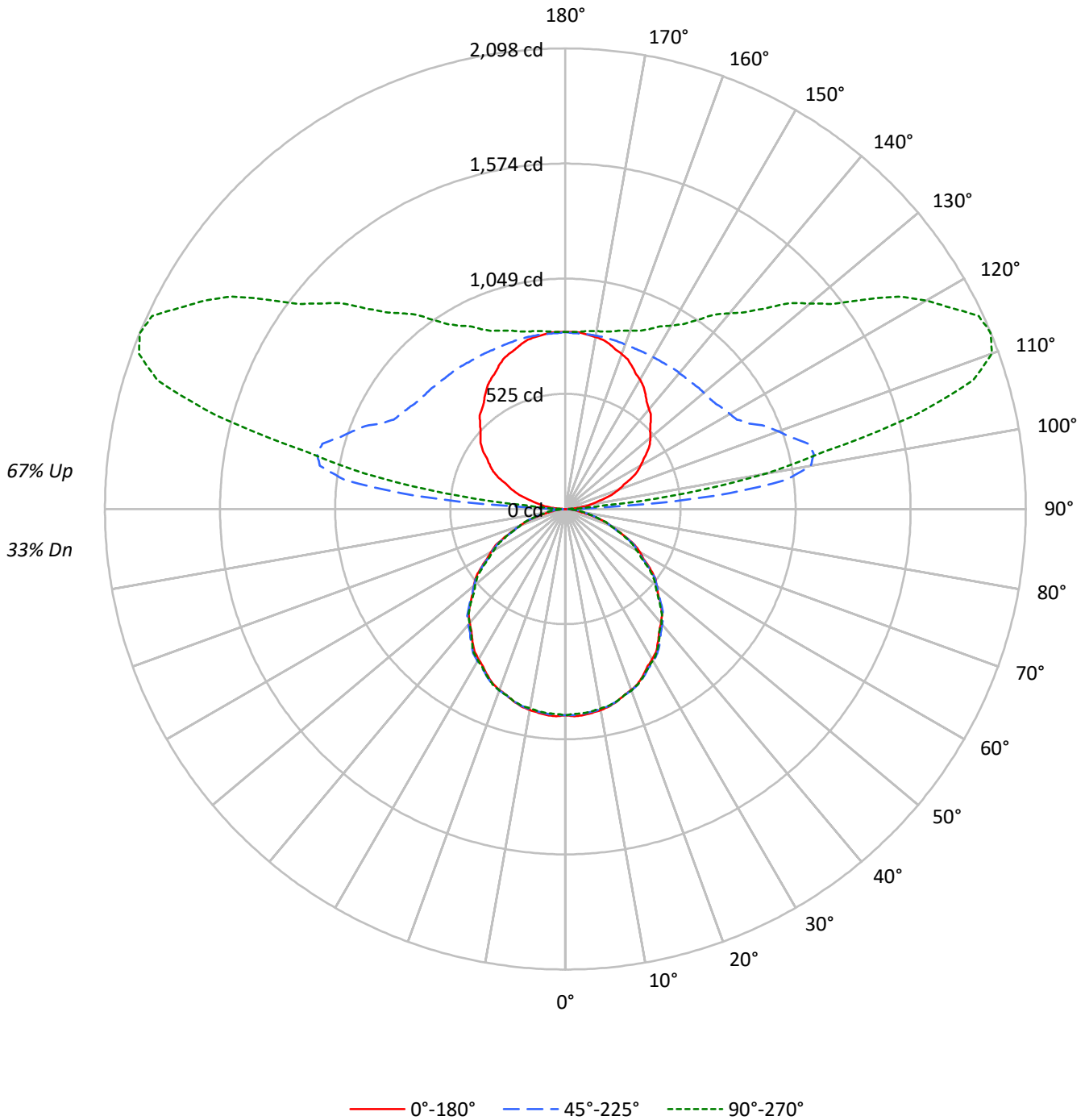
Lumens per Lamp: N/A  
Luminaire Lumens: 7801.2 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 64.3  
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	78	72	67	77	71	66	62	57	53	50	44	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	46	42	38	36	33	28	26	24	20
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	39	34	31	31	27	24	22	20	18	15
6	60	48	40	35	54	44	37	32	35	30	27	28	24	21	20	18	16	13
7	55	43	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	16	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

**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	1.1
10°-20°	255.2	3.3
20°-30°	386.5	5.0
30°-40°	463.4	5.9
40°-50°	472.5	6.1
50°-60°	412.5	5.3
60°-70°	295.3	3.8
70°-80°	152.1	1.9
80°-90°	40.1	0.5
90°-100°	377.3	4.8
100°-110°	1041.6	13.4
110°-120°	1074.2	13.8
120°-130°	863.2	11.1
130°-140°	678.4	8.7
140°-150°	520.3	6.7
150°-160°	373.9	4.8
160°-170°	228.7	2.9
170°-180°	77.1	1.0
0°-30°	730.7	9.4
0°-40°	1194.1	15.3
0°-60°	2079.1	26.7
0°-90°	2566.6	32.9
90°-120°	2493.0	32.0
90°-150°	4554.9	58.4
90°-180°	5235.0	67.1
0°-180°	7801.2	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°	3	5	10	12	13	5
95°	55	204	684	281	183	59
105°	186	286	1146	1750	1647	197
115°	333	402	923	1827	2078	327
125°	456	519	837	1416	1662	406
135°	549	608	813	1147	1293	425
145°	637	681	803	976	1051	399
155°	718	742	797	876	904	331
165°	777	787	800	832	838	219
175°	806	807	802	813	811	77
180°	806	806	806	806	806	



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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°	6.1	12.7	16.0	16.2	15.1
90°	2.6	5.1	10.3	11.6	12.9
92.5°	23.2	96.3	172.2	62.8	49.0
95°	55.4	204.2	684.5	281.4	183.0
97.5°	91.8	228.7	1013.9	780.6	565.4
100°	118.6	243.4	1135.6	1143.7	929.4
102.5°	144.4	260.1	1159.3	1413.1	1209.9
105°	185.6	286.4	1145.9	1749.5	1647.4
107.5°	229.4	319.2	1082.0	1911.7	1949.0
110°	260.4	341.0	1032.5	1946.6	2067.6

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	288.2	365.9	986.1	1919.0	2097.5
115°	332.6	401.9	922.9	1827.1	2077.9
117.5°	371.2	440.3	881.4	1697.7	1983.0
120°	397.0	465.1	864.9	1610.1	1897.4
122.5°	421.8	486.8	851.5	1528.3	1800.5
125°	456.3	519.3	836.6	1415.8	1661.6
127.5°	485.7	548.7	827.8	1320.7	1532.6
130°	505.3	568.3	823.7	1262.5	1455.3
132.5°	523.9	583.9	819.6	1213.6	1388.3
135°	549.1	608.4	813.4	1146.7	1292.9
137.5°	577.5	631.4	810.3	1090.5	1215.3
140°	593.0	645.9	808.2	1053.0	1162.7
142.5°	610.5	659.4	806.2	1019.7	1116.3
145°	636.8	680.9	803.1	976.2	1050.6
147.5°	662.0	700.6	800.2	939.5	997.2
150°	680.6	712.1	799.2	917.6	964.2
152.5°	695.0	724.5	798.2	898.8	937.4
155°	718.0	741.9	796.6	875.9	903.6
157.5°	739.1	757.5	796.9	859.2	878.1
160°	751.5	767.9	797.9	849.8	863.6
162.5°	761.8	776.2	798.9	841.5	852.3
165°	777.3	787.4	800.5	831.6	837.9
167.5°	789.1	795.2	801.8	825.5	827.6
170°	795.3	800.4	801.8	822.4	822.4
172.5°	800.5	803.5	801.8	818.2	817.2
175°	805.6	806.9	801.8	813.3	810.8
177.5°	807.7	806.7	801.5	808.7	806.7
180°	805.6	805.6	805.6	805.6	805.6

(END OF REPORT)