

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: P562946

Luminaire Tested: **SQ4-PC3-100U-100D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562946  
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-100D-840-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

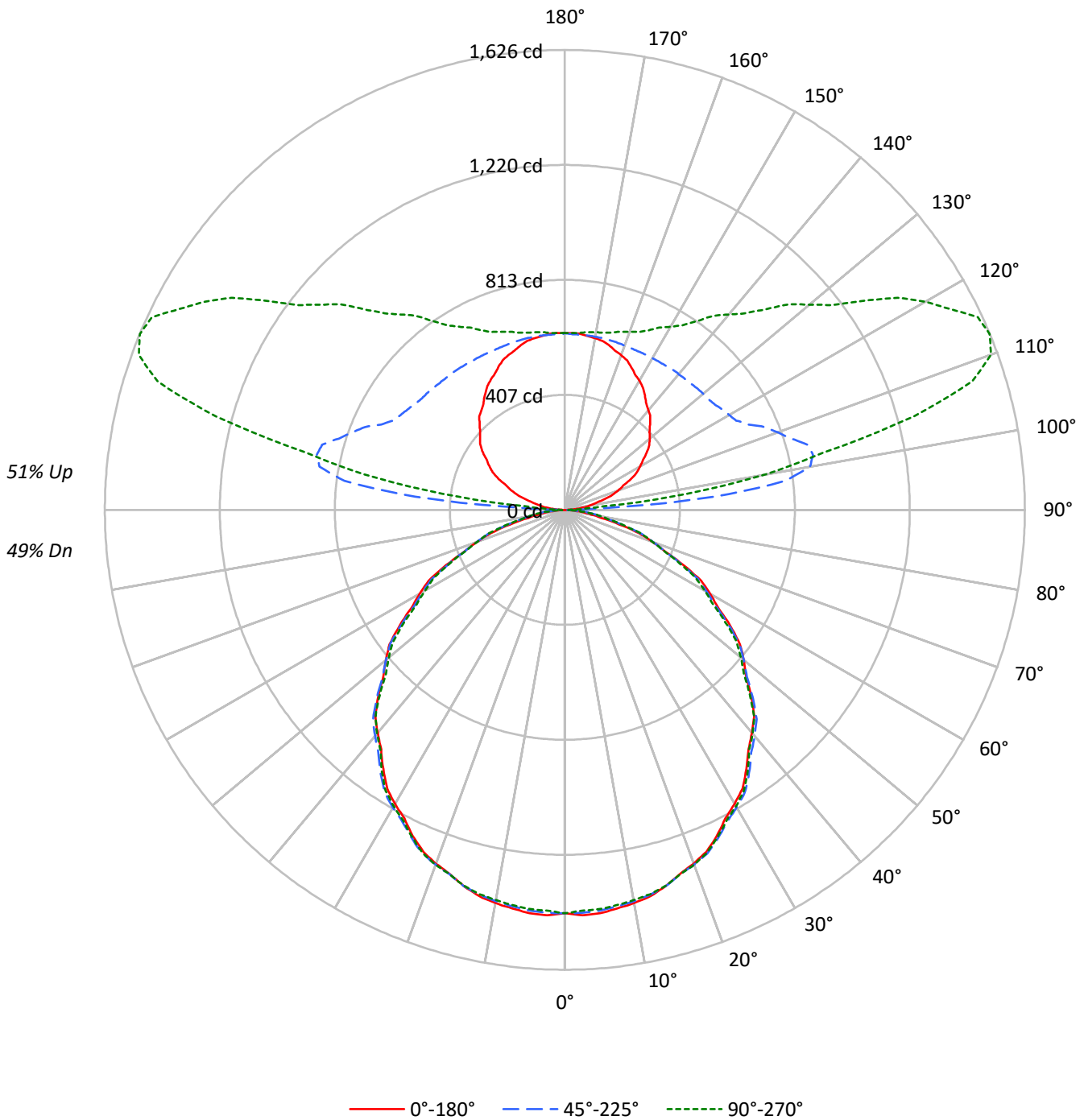
Lumens per Lamp: N/A  
Luminaire Lumens: 7950.8 lumens  
Efficiency: N/A  
Efficacy: 137.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 57.9  
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	81	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	33	29
4	74	63	55	49	68	59	52	46	50	45	40	42	38	34	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	42	37	57	47	40	34	40	34	30	34	29	26	28	24	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20	17
8	54	41	34	28	49	38	32	27	33	28	24	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	13159	13159	13159
5°	13259	13173	13124
10°	13226	13165	13127
15°	13157	13157	13145
20°	13070	13109	13109
25°	12947	13042	13001
30°	12790	12944	12888
35°	12599	12793	12704
40°	12391	12565	12439
45°	12166	12252	12063
50°	11847	11847	11658
55°	11472	11323	11154
60°	10918	10699	10527
65°	10090	9889	9802
70°	8835	8907	8872
75°	7108	7864	7910
80°	5053	6668	6737
85°	3080	5589	5589



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.0	1.7
10°-20°	387.4	4.9
20°-30°	586.6	7.4
30°-40°	703.3	8.8
40°-50°	717.1	9.0
50°-60°	626.0	7.9
60°-70°	448.2	5.6
70°-80°	230.8	2.9
80°-90°	59.7	0.8
90°-100°	292.4	3.7
100°-110°	807.2	10.2
110°-120°	832.5	10.5
120°-130°	669.0	8.4
130°-140°	525.7	6.6
140°-150°	403.2	5.1
150°-160°	289.8	3.6
160°-170°	177.2	2.2
170°-180°	59.8	0.8
0°-30°	1109.0	13.9
0°-40°	1812.3	22.8
0°-60°	3155.4	39.7
0°-90°	3894.0	49.0
90°-120°	1932.1	24.3
90°-150°	3530.0	44.4
90°-180°	4057.0	51.0
0°-180°	7950.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1432	1417	1422	1418	1417	136
15°	1378	1366	1378	1377	1376	388
25°	1272	1263	1281	1277	1277	585
35°	1119	1116	1136	1128	1128	700
45°	932	930	939	927	924	718
55°	713	704	704	693	693	636
65°	462	452	453	449	449	457
75°	199	208	221	222	222	215
85°	29	45	53	54	53	40
90°	2	4	8	9	10	4
95°	43	158	530	218	142	46
105°	144	222	888	1356	1277	153
115°	258	312	715	1416	1610	253
125°	354	402	648	1097	1288	315
135°	426	472	630	889	1002	329
145°	494	528	622	756	814	309
155°	556	575	617	679	700	256
165°	602	610	620	644	649	170
175°	624	625	621	630	628	59
180°	624	624	624	624	624	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1426.3	1426.3	1426.3	1426.3	1426.3
2.5°	1434.8	1422.4	1426.3	1423.1	1417.9
5°	1431.6	1417.4	1422.4	1418.4	1417.1
7.5°	1421.3	1407.1	1413.7	1411.0	1409.7
10°	1411.8	1397.6	1405.2	1402.5	1401.2
12.5°	1399.1	1386.0	1394.6	1392.0	1391.7
15°	1377.5	1365.9	1377.5	1377.4	1376.2
17.5°	1350.3	1339.7	1352.1	1352.9	1352.1
20°	1331.2	1319.6	1335.2	1333.9	1335.2
22.5°	1308.0	1298.4	1315.1	1311.7	1313.0
25°	1271.8	1262.8	1281.1	1277.1	1277.1
27.5°	1229.0	1222.6	1242.5	1238.3	1238.3
30°	1200.5	1194.0	1215.0	1209.7	1209.7
32.5°	1168.8	1164.4	1184.4	1178.0	1178.0
35°	1118.6	1116.0	1135.8	1127.9	1127.9
37.5°	1066.8	1064.5	1082.4	1072.9	1069.8
40°	1028.8	1027.5	1043.3	1032.8	1032.8
42.5°	990.8	989.5	1003.2	990.5	990.5
45°	932.4	929.8	939.0	927.1	924.5
47.5°	868.7	866.2	871.9	858.9	857.7
50°	825.4	822.8	825.4	813.5	812.2
52.5°	781.1	776.4	776.8	764.9	764.7
55°	713.2	704.1	703.9	693.4	693.4
57.5°	641.3	629.4	630.5	621.5	620.2
60°	591.7	578.8	579.8	571.8	570.5
62.5°	543.1	528.1	531.2	522.2	521.9
65°	462.2	451.9	453.0	449.0	449.0
67.5°	384.6	375.0	381.9	378.8	378.5
70°	327.5	321.1	330.2	330.1	328.9
72.5°	274.7	274.4	285.8	285.8	286.6
75°	199.4	208.5	220.6	221.9	221.9
77.5°	133.1	149.1	162.4	163.0	162.7
80°	95.1	113.2	125.5	128.1	126.8
82.5°	64.4	83.6	93.8	96.4	95.1
85°	29.1	44.6	52.8	54.1	52.8
87.5°	8.9	18.5	22.7	22.9	21.0
90°	2.0	4.0	8.0	9.0	10.0
92.5°	18.0	74.6	133.5	48.7	38.0
95°	43.0	158.2	530.5	218.0	141.9
97.5°	71.1	177.2	785.8	605.0	438.1
100°	91.9	188.6	880.1	886.3	720.3
102.5°	111.9	201.6	898.5	1095.1	937.6
105°	143.9	222.0	888.1	1355.8	1276.7
107.5°	177.8	247.4	838.5	1481.5	1510.4
110°	201.8	264.3	800.2	1508.6	1602.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	223.4	283.5	764.2	1487.2	1625.5
115°	257.7	311.5	715.3	1416.0	1610.3
117.5°	287.7	341.2	683.1	1315.7	1536.8
120°	307.7	360.4	670.3	1247.8	1470.5
122.5°	326.9	377.3	659.9	1184.4	1395.4
125°	353.6	402.5	648.3	1097.2	1287.7
127.5°	376.4	425.2	641.5	1023.5	1187.8
130°	391.6	440.4	638.3	978.4	1127.8
132.5°	406.0	452.5	635.1	940.5	1075.9
135°	425.6	471.5	630.3	888.7	1002.0
137.5°	447.5	489.3	628.0	845.1	941.8
140°	459.5	500.5	626.4	816.1	901.1
142.5°	473.1	511.0	624.8	790.3	865.1
145°	493.5	527.7	622.4	756.5	814.2
147.5°	513.1	543.0	620.2	728.1	772.8
150°	527.5	551.9	619.4	711.1	747.2
152.5°	538.6	561.5	618.6	696.6	726.4
155°	556.4	575.0	617.4	678.8	700.3
157.5°	572.8	587.1	617.6	665.8	680.5
160°	582.4	595.1	618.4	658.6	669.3
162.5°	590.4	601.5	619.2	652.1	660.5
165°	602.4	610.2	620.4	644.4	649.3
167.5°	611.6	616.3	621.4	639.8	641.3
170°	616.4	620.3	621.4	637.3	637.3
172.5°	620.4	622.7	621.4	634.1	633.3
175°	624.4	625.3	621.4	630.3	628.4
177.5°	626.0	625.2	621.2	626.7	625.2
180°	624.4	624.4	624.4	624.4	624.4

(END OF REPORT)