

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: P562964

Luminaire Tested: **SQ4-PC3-100U-125D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562964  
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-125D-830-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

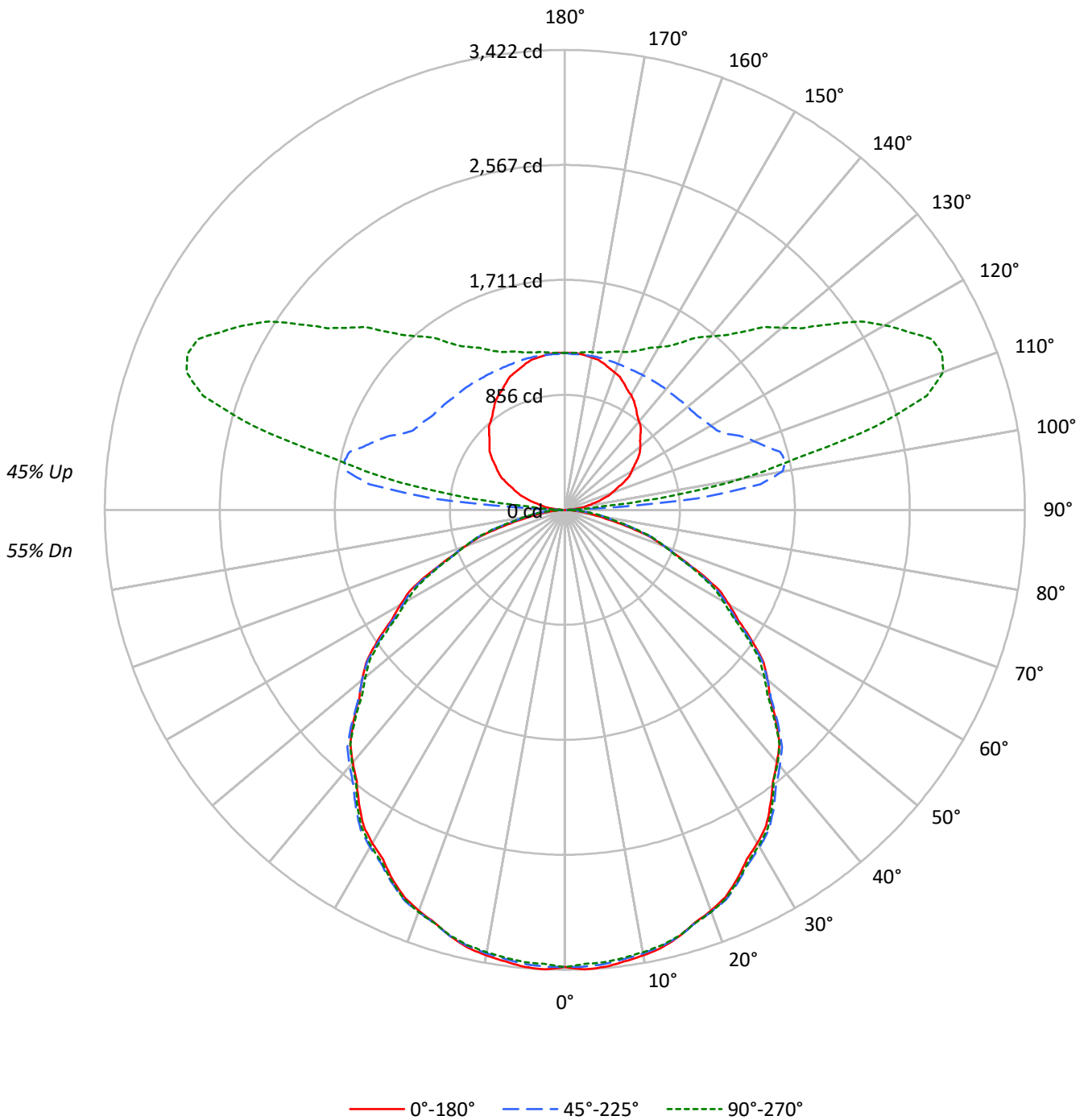
Lumens per Lamp: N/A  
Luminaire Lumens: 16868.8 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 140.6  
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55		
1	99	95	91	87	92	88	85	82	76	73	71	64	63	61	54	53	51	47		
2	90	83	76	71	83	77	72	67	66	62	59	56	54	51	47	45	43	39		
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33		
4	75	64	56	50	70	60	53	47	52	46	42	44	40	37	37	34	32	28		
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24		
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	31	27	24	21		
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	22	19		
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	26	22	19	17		
9	51	38	31	26	47	36	29	25	32	26	22	28	23	20	24	20	17	15		
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14		

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

	0°	45°	90°
0°	15693	15693	15693
5°	15812	15710	15651
10°	15773	15699	15655
15°	15691	15691	15675
20°	15587	15634	15634
25°	15440	15552	15504
30°	15252	15436	15369
35°	15025	15255	15149
40°	14777	14985	14833
45°	14508	14611	14385
50°	14129	14129	13903
55°	13681	13503	13300
60°	13020	12758	12555
65°	12034	11793	11691
70°	10537	10622	10578
75°	8477	9375	9432
80°	6025	7948	8033
85°	3668	6669	6669



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	322.0	1.9
10°-20°	923.9	5.5
20°-30°	1399.2	8.3
30°-40°	1677.4	9.9
40°-50°	1710.4	10.1
50°-60°	1493.0	8.9
60°-70°	1068.9	6.3
70°-80°	550.5	3.3
80°-90°	141.6	0.8
90°-100°	546.5	3.2
100°-110°	1508.6	8.9
110°-120°	1555.9	9.2
120°-130°	1250.3	7.4
130°-140°	982.6	5.8
140°-150°	753.6	4.5
150°-160°	541.6	3.2
160°-170°	331.2	2.0
170°-180°	111.7	0.7
0°-30°	2645.0	15.7
0°-40°	4322.4	25.6
0°-60°	7525.8	44.6
0°-90°	9286.9	55.1
90°-120°	3611.0	21.4
90°-150°	6597.5	39.1
90°-180°	7582.0	44.9
0°-180°	16868.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3402	3402	3402	3402	3402	
5°	3414	3381	3392	3383	3380	324
15°	3285	3258	3285	3285	3282	926
25°	3033	3012	3055	3046	3046	1396
35°	2668	2662	2709	2690	2690	1669
45°	2224	2218	2240	2211	2205	1712
55°	1701	1679	1679	1654	1654	1516
65°	1102	1078	1080	1071	1071	1090
75°	476	497	526	529	529	514
85°	69	106	126	129	126	94
90°	4	7	15	17	19	8
95°	80	296	991	408	265	86
105°	269	415	1660	2534	2386	286
115°	482	582	1337	2646	3010	473
125°	661	752	1212	2051	2407	588
135°	795	881	1178	1661	1873	615
145°	922	986	1163	1414	1522	577
155°	1040	1075	1154	1269	1309	479
165°	1126	1140	1159	1204	1214	317
175°	1167	1169	1161	1178	1174	111
180°	1167	1167	1167	1167	1167	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3401.9	3401.9	3401.9	3401.9	3401.9
2.5°	3422.1	3392.5	3401.9	3394.1	3381.7
5°	3414.5	3380.6	3392.5	3382.9	3379.9
7.5°	3389.9	3356.1	3371.7	3365.3	3362.2
10°	3367.3	3333.4	3351.5	3345.1	3342.1
12.5°	3337.0	3305.6	3326.3	3320.0	3319.4
15°	3285.4	3257.6	3285.4	3285.3	3282.2
17.5°	3220.5	3195.2	3224.9	3226.7	3224.9
20°	3175.1	3147.4	3184.6	3181.5	3184.6
22.5°	3119.7	3096.9	3136.7	3128.6	3131.6
25°	3033.4	3011.8	3055.4	3046.0	3046.0
27.5°	2931.3	2915.9	2963.4	2953.4	2953.4
30°	2863.3	2847.9	2897.9	2885.3	2885.3
32.5°	2787.7	2777.2	2824.8	2809.7	2809.7
35°	2668.0	2661.8	2708.9	2690.0	2690.0
37.5°	2544.5	2539.0	2581.7	2558.8	2551.4
40°	2453.8	2450.7	2488.4	2463.2	2463.2
42.5°	2363.1	2360.0	2392.7	2362.4	2362.4
45°	2223.8	2217.7	2239.6	2211.1	2204.9
47.5°	2072.0	2065.9	2079.6	2048.6	2045.6
50°	1968.7	1962.5	1968.7	1940.3	1937.2
52.5°	1862.9	1851.8	1852.8	1824.4	1823.8
55°	1701.0	1679.4	1678.9	1653.7	1653.7
57.5°	1529.6	1501.3	1503.8	1482.3	1479.2
60°	1411.2	1380.4	1382.8	1363.8	1360.8
62.5°	1295.2	1259.5	1266.9	1245.5	1244.8
65°	1102.5	1077.8	1080.4	1071.0	1071.0
67.5°	917.3	894.5	911.0	903.4	902.8
70°	781.2	765.8	787.5	787.4	784.3
72.5°	655.2	654.6	681.6	681.7	683.5
75°	475.6	497.2	526.0	529.2	529.2
77.5°	317.5	355.7	387.4	388.7	388.1
80°	226.8	269.9	299.2	305.5	302.4
82.5°	153.7	199.3	223.6	229.9	226.8
85°	69.3	106.3	126.0	129.1	126.0
87.5°	20.9	43.8	53.4	53.7	49.1
90°	3.7	7.4	14.9	16.8	18.7
92.5°	33.6	139.5	249.4	91.0	70.9
95°	80.3	295.7	991.4	407.5	265.1
97.5°	132.9	331.2	1468.6	1130.7	818.9
100°	171.8	352.5	1644.9	1656.5	1346.1
102.5°	209.1	376.7	1679.2	2046.7	1752.4
105°	268.9	414.9	1659.8	2534.0	2386.1
107.5°	332.3	462.3	1567.2	2768.9	2823.0
110°	377.1	494.0	1495.5	2819.5	2994.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	417.5	529.9	1428.3	2779.6	3038.1
115°	481.7	582.1	1336.8	2646.4	3009.7
117.5°	537.7	637.8	1276.7	2459.0	2872.3
120°	575.1	673.6	1252.8	2332.1	2748.3
122.5°	610.9	705.1	1233.4	2213.6	2607.9
125°	660.9	752.2	1211.7	2050.6	2406.6
127.5°	703.5	794.8	1199.0	1912.9	2219.9
130°	731.9	823.2	1193.0	1828.6	2107.9
132.5°	758.8	845.7	1187.1	1757.8	2010.8
135°	795.4	881.2	1178.1	1660.9	1872.7
137.5°	836.4	914.6	1173.6	1579.5	1760.3
140°	858.8	935.5	1170.6	1525.3	1684.1
142.5°	884.2	955.1	1167.7	1477.0	1616.9
145°	922.3	986.2	1163.2	1413.9	1521.6
147.5°	958.9	1014.8	1159.1	1360.7	1444.3
150°	985.8	1031.4	1157.6	1329.0	1396.6
152.5°	1006.7	1049.4	1156.1	1301.9	1357.7
155°	1039.9	1074.6	1153.8	1268.6	1308.8
157.5°	1070.6	1097.2	1154.2	1244.5	1271.8
160°	1088.5	1112.2	1155.7	1230.8	1250.9
162.5°	1103.4	1124.2	1157.2	1218.8	1234.5
165°	1125.8	1140.4	1159.4	1204.5	1213.6
167.5°	1143.0	1151.8	1161.3	1195.7	1198.6
170°	1152.0	1159.3	1161.3	1191.2	1191.2
172.5°	1159.4	1163.8	1161.3	1185.2	1183.7
175°	1166.9	1168.7	1161.3	1178.0	1174.4
177.5°	1169.9	1168.4	1160.9	1171.3	1168.4
180°	1166.9	1166.9	1166.9	1166.9	1166.9

(END OF REPORT)