

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: P562942

Luminaire Tested: **SQ4-PC3-100U-100D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562942  
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-835-1D-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: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

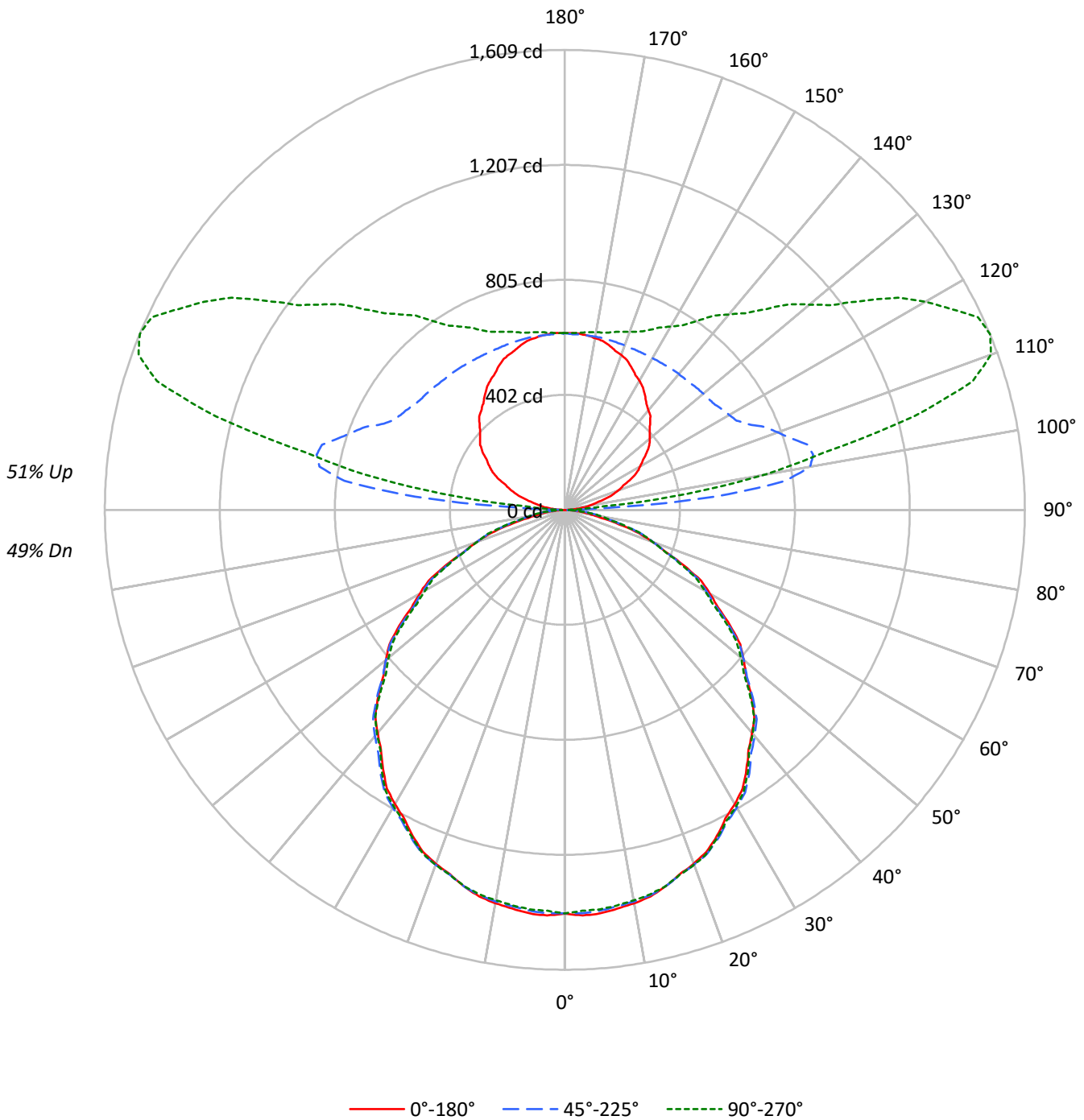
Lumens per Lamp: N/A  
Luminaire Lumens: 7871.6 lumens  
Efficiency: N/A  
Efficacy: 136.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

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	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°	13028	13028	13028
5°	13127	13042	12994
10°	13094	13034	12997
15°	13026	13026	13013
20°	12941	12979	12979
25°	12818	12911	12872
30°	12662	12815	12760
35°	12474	12665	12576
40°	12268	12440	12315
45°	12044	12131	11943
50°	11730	11730	11542
55°	11358	11210	11043
60°	10809	10592	10424
65°	9990	9791	9706
70°	8748	8818	8783
75°	7037	7785	7832
80°	5000	6599	6668
85°	3049	5536	5536



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.6	1.7
10°-20°	383.5	4.9
20°-30°	580.8	7.4
30°-40°	696.3	8.8
40°-50°	710.0	9.0
50°-60°	619.8	7.9
60°-70°	443.7	5.6
70°-80°	228.5	2.9
80°-90°	59.1	0.8
90°-100°	289.5	3.7
100°-110°	799.1	10.2
110°-120°	824.2	10.5
120°-130°	662.3	8.4
130°-140°	520.5	6.6
140°-150°	399.2	5.1
150°-160°	286.9	3.6
160°-170°	175.5	2.2
170°-180°	59.2	0.8
0°-30°	1097.9	13.9
0°-40°	1794.2	22.8
0°-60°	3123.9	39.7
0°-90°	3855.2	49.0
90°-120°	1912.8	24.3
90°-150°	3494.8	44.4
90°-180°	4016.0	51.0
0°-180°	7871.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1412	1412	1412	1412	1412	
5°	1417	1403	1408	1404	1403	135
15°	1364	1352	1364	1364	1362	385
25°	1259	1250	1268	1264	1264	579
35°	1108	1105	1124	1117	1117	693
45°	923	921	930	918	915	711
55°	706	697	697	686	686	629
65°	458	447	448	445	445	453
75°	197	206	218	220	220	213
85°	29	44	52	54	52	39
90°	2	4	8	9	10	4
95°	42	157	525	216	140	45
105°	142	220	879	1342	1264	152
115°	255	308	708	1402	1594	251
125°	350	398	642	1086	1275	312
135°	421	467	624	880	992	326
145°	489	522	616	749	806	306
155°	551	569	611	672	693	254
165°	596	604	614	638	643	168
175°	618	619	615	624	622	59
180°	618	618	618	618	618	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1412.1	1412.1	1412.1	1412.1	1412.1
2.5°	1420.5	1408.2	1412.1	1408.9	1403.8
5°	1417.4	1403.3	1408.2	1404.3	1403.0
7.5°	1407.2	1393.1	1399.6	1396.9	1395.7
10°	1397.7	1383.7	1391.2	1388.6	1387.3
12.5°	1385.2	1372.2	1380.7	1378.1	1377.9
15°	1363.7	1352.2	1363.7	1363.7	1362.4
17.5°	1336.8	1326.3	1338.6	1339.4	1338.6
20°	1318.0	1306.5	1321.9	1320.6	1321.9
22.5°	1295.0	1285.5	1302.0	1298.7	1299.9
25°	1259.1	1250.2	1268.3	1264.4	1264.4
27.5°	1216.8	1210.4	1230.1	1225.9	1225.9
30°	1188.5	1182.1	1202.9	1197.7	1197.7
32.5°	1157.2	1152.8	1172.6	1166.3	1166.3
35°	1107.5	1104.9	1124.5	1116.6	1116.6
37.5°	1056.2	1053.9	1071.6	1062.2	1059.1
40°	1018.6	1017.3	1032.9	1022.5	1022.5
42.5°	980.9	979.6	993.2	980.6	980.6
45°	923.1	920.6	929.7	917.8	915.3
47.5°	860.1	857.5	863.2	850.4	849.1
50°	817.2	814.6	817.2	805.4	804.1
52.5°	773.3	768.7	769.1	757.3	757.1
55°	706.1	697.1	696.9	686.5	686.5
57.5°	634.9	623.2	624.2	615.3	614.0
60°	585.8	573.0	574.0	566.1	564.9
62.5°	537.7	522.8	525.9	517.0	516.7
65°	457.6	447.4	448.5	444.6	444.6
67.5°	380.8	371.3	378.1	375.0	374.7
70°	324.3	317.9	326.9	326.9	325.6
72.5°	272.0	271.7	282.9	283.0	283.7
75°	197.4	206.4	218.4	219.7	219.7
77.5°	131.8	147.7	160.8	161.3	161.1
80°	94.1	112.0	124.2	126.8	125.5
82.5°	63.8	82.7	92.8	95.4	94.1
85°	28.8	44.1	52.3	53.6	52.3
87.5°	8.8	18.4	22.5	22.7	20.8
90°	2.0	3.9	7.9	8.9	9.9
92.5°	17.8	73.9	132.1	48.2	37.6
95°	42.5	156.6	525.2	215.9	140.4
97.5°	70.4	175.4	778.0	599.0	433.8
100°	91.0	186.7	871.3	877.5	713.1
102.5°	110.8	199.5	889.5	1084.2	928.3
105°	142.4	219.8	879.2	1342.3	1264.0
107.5°	176.0	244.9	830.2	1466.8	1495.4
110°	199.8	261.7	792.2	1493.5	1586.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	221.1	280.7	756.6	1472.4	1609.3
115°	255.2	308.4	708.1	1401.9	1594.3
117.5°	284.8	337.8	676.3	1302.6	1521.5
120°	304.6	356.8	663.6	1235.3	1455.8
122.5°	323.6	373.5	653.3	1172.6	1381.5
125°	350.1	398.5	641.9	1086.3	1274.8
127.5°	372.7	421.0	635.1	1013.3	1175.9
130°	387.7	436.0	632.0	968.6	1116.6
132.5°	401.9	448.0	628.8	931.1	1065.2
135°	421.3	466.8	624.1	879.8	992.0
137.5°	443.1	484.5	621.7	836.7	932.4
140°	454.9	495.6	620.1	808.0	892.1
142.5°	468.4	505.9	618.5	782.4	856.5
145°	488.6	522.4	616.2	749.0	806.0
147.5°	508.0	537.5	614.0	720.8	765.1
150°	522.2	546.4	613.2	704.0	739.8
152.5°	533.3	555.9	612.4	689.6	719.2
155°	550.9	569.3	611.2	672.0	693.3
157.5°	567.1	581.2	611.4	659.2	673.7
160°	576.6	589.2	612.2	652.0	662.6
162.5°	584.5	595.5	613.0	645.6	653.9
165°	596.4	604.1	614.2	638.0	642.9
167.5°	605.5	610.1	615.2	633.4	634.9
170°	610.2	614.1	615.2	631.0	631.0
172.5°	614.2	616.5	615.2	627.8	627.0
175°	618.1	619.1	615.2	624.0	622.1
177.5°	619.7	618.9	615.0	620.5	618.9
180°	618.1	618.1	618.1	618.1	618.1

(END OF REPORT)