

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: P562558

Luminaire Tested: **SQ4-PC3-025U-100D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562558  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-100D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

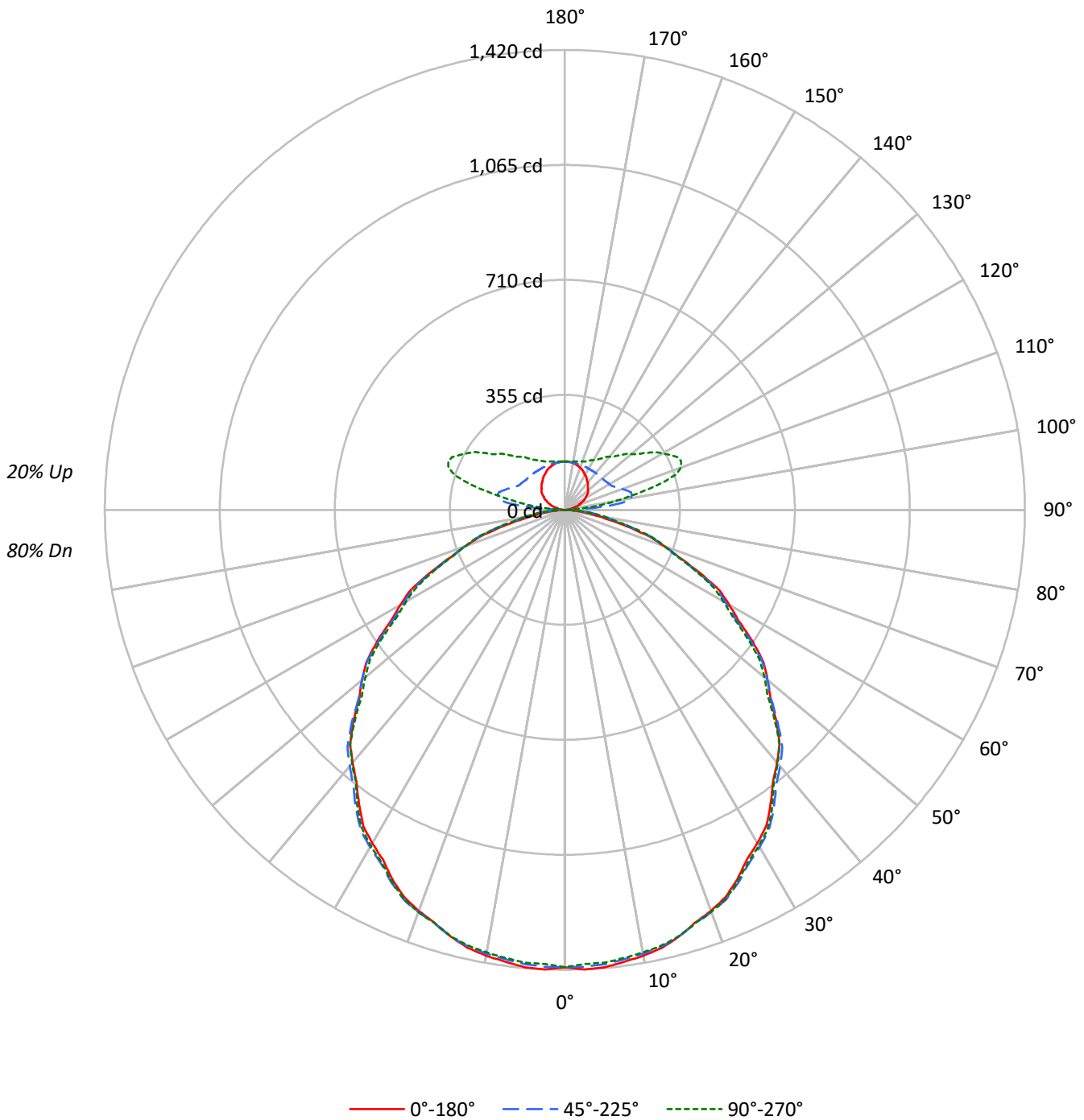
Lumens per Lamp: N/A  
Luminaire Lumens: 4820.7 lumens  
Efficiency: N/A  
Efficacy: 124.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 38.7  
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	84	84	84	80
1	105	100	96	92	100	96	92	89	88	85	83	81	79	77	74	72	71	68
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60	57
3	87	77	69	63	83	74	67	61	68	62	58	63	58	54	58	54	51	48
4	80	68	60	53	76	66	58	52	61	54	49	56	51	46	52	47	44	41
5	73	61	52	46	70	59	51	45	54	48	43	50	45	40	46	42	38	36
6	68	55	46	40	64	53	45	39	49	42	37	45	40	35	42	37	34	31
7	63	50	41	35	60	48	40	34	45	38	33	41	36	31	38	34	30	28
8	58	45	37	31	56	44	36	31	41	34	29	38	32	28	35	30	27	25
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	33	28	24	22
10	51	38	30	25	49	37	30	25	35	28	24	32	27	23	30	25	22	20

**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	2.8
10°-20°	383.5	8.0
20°-30°	580.8	12.0
30°-40°	696.3	14.4
40°-50°	710.0	14.7
50°-60°	619.8	12.9
60°-70°	443.7	9.2
70°-80°	228.5	4.7
80°-90°	58.6	1.2
90°-100°	72.6	1.5
100°-110°	190.9	4.0
110°-120°	198.0	4.1
120°-130°	158.8	3.3
130°-140°	124.6	2.6
140°-150°	95.6	2.0
150°-160°	68.9	1.4
160°-170°	42.1	0.9
170°-180°	14.2	0.3
0°-30°	1097.9	22.8
0°-40°	1794.2	37.2
0°-60°	3123.9	64.8
0°-90°	3854.8	80.0
90°-120°	461.6	9.6
90°-150°	840.6	17.4
90°-180°	966.0	20.0
0°-180°	4820.7	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°	1	3	8	4	4	2
95°	10	38	125	64	44	11
105°	34	52	211	320	299	36
115°	61	74	169	337	385	60
125°	85	95	154	260	307	75
135°	101	112	149	210	238	78
145°	118	125	147	179	193	74
155°	133	136	147	162	166	61
165°	143	145	147	153	155	40
175°	149	149	148	150	150	14
180°	149	149	149	149	149	



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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°	8.6	18.1	22.4	21.6	19.6
90°	1.0	2.8	7.6	3.8	3.8
92.5°	4.0	19.3	42.8	19.0	12.2
95°	9.6	37.6	125.1	64.5	43.9
97.5°	16.6	41.3	187.2	148.9	109.7
100°	22.0	44.4	206.3	209.1	162.4
102.5°	26.6	47.5	211.7	260.5	220.5
105°	34.4	52.1	211.1	320.5	299.0
107.5°	42.4	58.9	199.1	351.7	356.9
110°	47.8	62.7	189.1	359.7	382.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	53.1	67.3	180.0	354.6	389.0
115°	61.1	74.2	169.1	337.3	385.0
117.5°	69.0	80.9	161.6	313.4	366.3
120°	73.6	84.8	158.6	297.3	348.7
122.5°	78.1	89.4	156.3	281.2	331.9
125°	85.0	95.3	153.8	259.9	306.6
127.5°	90.6	101.0	151.7	242.8	282.2
130°	93.6	104.8	150.9	232.0	268.4
132.5°	96.7	107.9	150.2	222.8	255.4
135°	101.3	111.5	149.0	209.8	237.9
137.5°	106.0	116.1	148.8	200.2	223.2
140°	109.9	119.2	148.1	192.5	214.0
142.5°	112.9	121.5	148.1	187.1	205.6
145°	117.5	125.0	147.1	179.0	193.0
147.5°	122.1	129.4	147.1	172.2	183.8
150°	125.1	131.7	147.1	168.3	177.7
152.5°	128.2	133.2	147.1	165.2	172.3
155°	132.8	136.5	147.1	161.5	166.2
157.5°	136.2	139.8	147.1	158.3	161.6
160°	138.5	141.3	147.1	156.7	158.6
162.5°	140.8	142.9	147.1	155.2	157.0
165°	143.3	145.2	147.1	152.9	154.8
167.5°	145.6	146.5	148.1	151.9	152.7
170°	147.1	148.0	148.1	151.9	151.9
172.5°	147.9	148.1	148.1	151.1	150.4
175°	149.0	149.0	148.1	150.0	150.0
177.5°	149.0	149.0	148.3	149.8	149.0
180°	149.0	149.0	149.0	149.0	149.0

(END OF REPORT)