

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: P562562

Luminaire Tested: **SQ4-PC3-025U-100D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562562  
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-840-1D-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: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

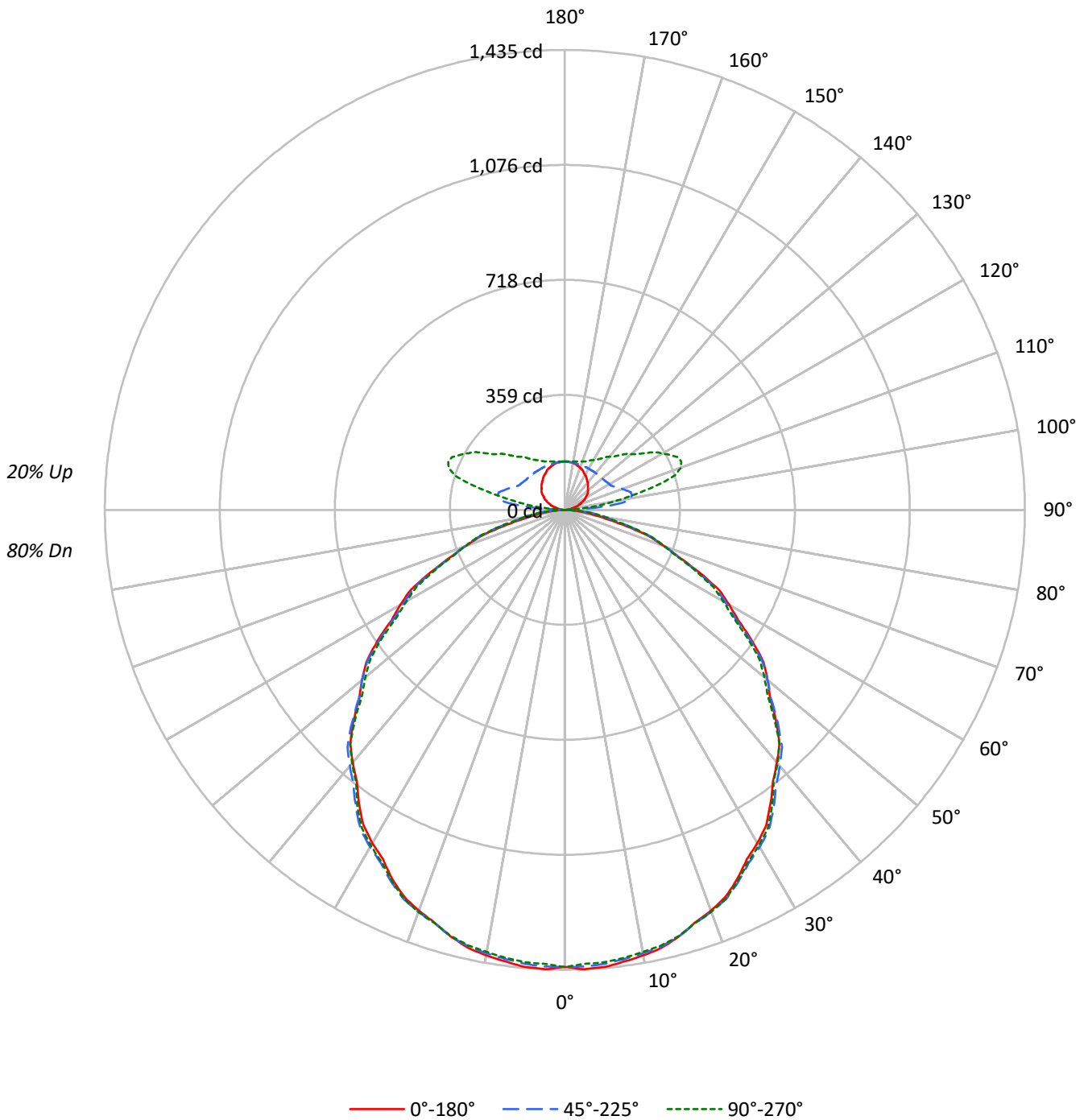
Lumens per Lamp: N/A  
Luminaire Lumens: 4869.2 lumens  
Efficiency: N/A  
Efficacy: 125.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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°	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	2.8
10°-20°	387.4	8.0
20°-30°	586.6	12.0
30°-40°	703.3	14.4
40°-50°	717.1	14.7
50°-60°	626.0	12.9
60°-70°	448.2	9.2
70°-80°	230.8	4.7
80°-90°	59.2	1.2
90°-100°	73.4	1.5
100°-110°	192.9	4.0
110°-120°	200.0	4.1
120°-130°	160.4	3.3
130°-140°	125.9	2.6
140°-150°	96.6	2.0
150°-160°	69.6	1.4
160°-170°	42.6	0.9
170°-180°	14.4	0.3
0°-30°	1109.0	22.8
0°-40°	1812.3	37.2
0°-60°	3155.4	64.8
0°-90°	3893.6	80.0
90°-120°	466.2	9.6
90°-150°	849.1	17.4
90°-180°	976.0	20.0
0°-180°	4869.2	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°	1	3	8	4	4	2
95°	10	38	126	65	44	11
105°	35	53	213	324	302	37
115°	62	75	171	341	389	61
125°	86	96	155	263	310	76
135°	102	113	150	212	240	79
145°	119	126	149	181	195	74
155°	134	138	149	163	168	62
165°	145	147	149	154	156	41
175°	150	150	150	152	152	14
180°	150	150	150	150	150	

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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°	8.6	18.3	22.7	21.9	19.8
90°	1.0	2.9	7.7	3.9	3.9
92.5°	4.1	19.5	43.2	19.1	12.4
95°	9.6	38.0	126.4	65.1	44.4
97.5°	16.8	41.7	189.1	150.4	110.8
100°	22.2	44.8	208.4	211.2	164.0
102.5°	26.8	48.0	213.8	263.1	222.7
105°	34.7	52.7	213.2	323.7	302.0
107.5°	42.8	59.4	201.1	355.2	360.5
110°	48.2	63.3	191.1	363.3	386.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	53.6	68.0	181.8	358.2	392.9
115°	61.8	75.0	170.8	340.7	388.9
117.5°	69.7	81.7	163.3	316.5	369.9
120°	74.3	85.6	160.2	300.3	352.2
122.5°	78.9	90.3	157.9	284.1	335.2
125°	85.9	96.3	155.3	262.6	309.7
127.5°	91.5	102.0	153.2	245.2	285.0
130°	94.6	105.9	152.5	234.3	271.1
132.5°	97.6	109.0	151.7	225.0	258.0
135°	102.3	112.7	150.5	212.0	240.3
137.5°	107.1	117.3	150.3	202.2	225.4
140°	111.0	120.4	149.6	194.4	216.1
142.5°	114.1	122.7	149.6	189.0	207.6
145°	118.7	126.2	148.6	180.8	194.9
147.5°	123.3	130.7	148.6	173.9	185.6
150°	126.4	133.0	148.6	170.0	179.5
152.5°	129.5	134.6	148.6	166.9	174.1
155°	134.1	137.9	148.6	163.2	167.9
157.5°	137.6	141.2	148.6	159.9	163.3
160°	139.9	142.7	148.6	158.3	160.2
162.5°	142.2	144.3	148.6	156.7	158.6
165°	144.7	146.6	148.6	154.4	156.3
167.5°	147.1	148.0	149.6	153.4	154.2
170°	148.6	149.5	149.6	153.4	153.4
172.5°	149.4	149.6	149.6	152.6	151.9
175°	150.5	150.5	149.6	151.5	151.5
177.5°	150.5	150.5	149.8	151.3	150.5
180°	150.5	150.5	150.5	150.5	150.5

(END OF REPORT)