

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: P562676

Luminaire Tested: **SQ4-PC3-050U-125D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562676  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PC3-050U-125D-830-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

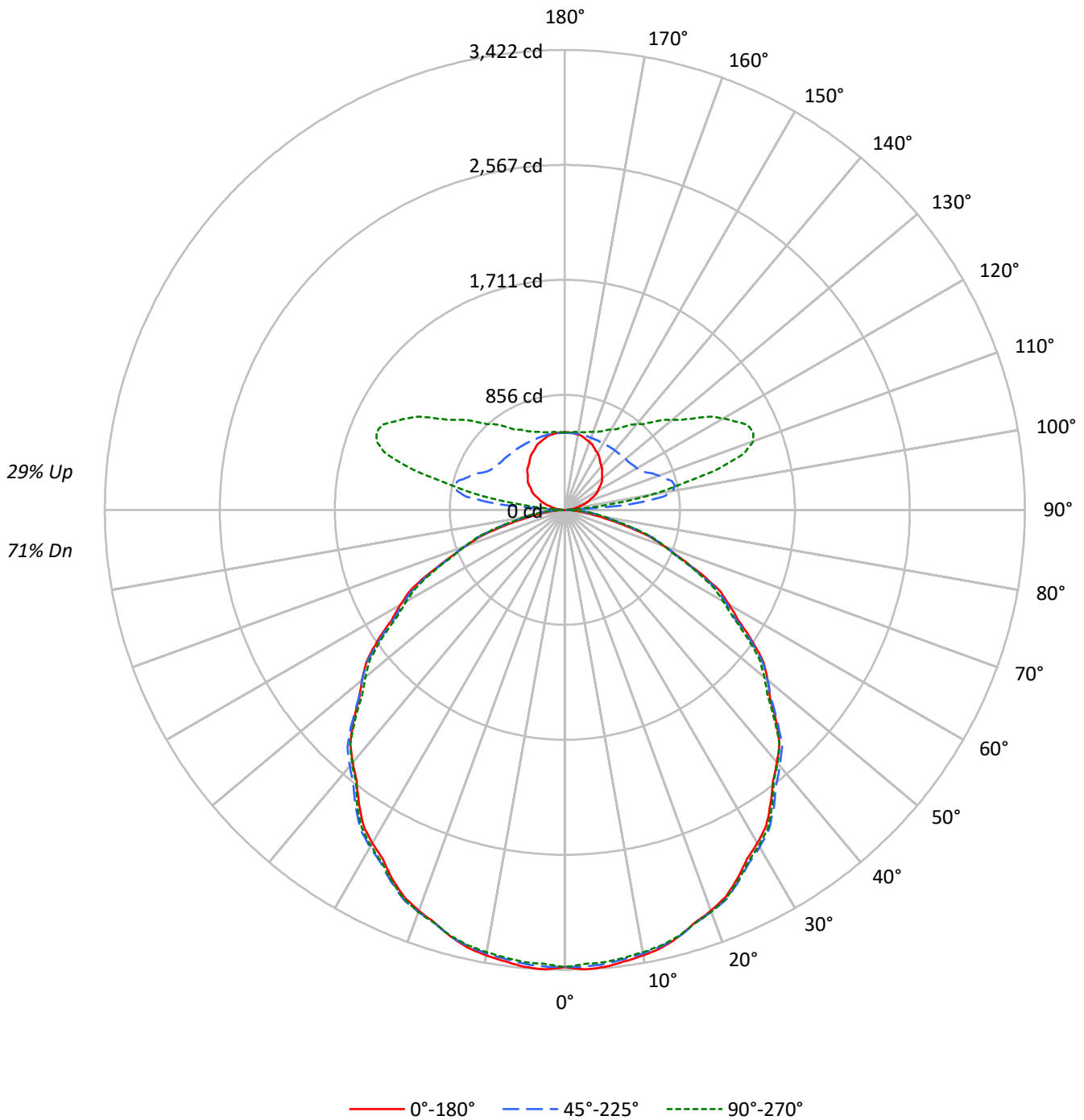
Lumens per Lamp: N/A  
Luminaire Lumens: 13047.0 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 114.8  
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	71
1	103	98	94	91	97	93	90	86	84	81	79	75	73	71	67	65	64	60
2	93	86	79	74	88	81	76	71	73	69	65	66	62	59	59	56	54	50
3	85	75	68	62	80	72	65	59	65	59	55	58	54	50	52	49	46	43
4	78	67	59	52	74	64	56	50	58	51	47	52	47	43	47	43	40	37
5	72	60	51	45	68	57	49	43	52	45	40	47	41	37	42	38	34	32
6	66	54	45	39	62	51	43	38	46	40	35	42	37	33	38	34	30	28
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	35	30	27	25
8	57	44	36	30	54	42	35	30	39	32	28	35	30	26	32	27	24	22
9	53	40	33	27	50	39	31	26	35	29	25	32	27	23	29	25	22	20
10	50	37	30	25	47	36	29	24	33	27	22	30	25	21	27	23	20	18

**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	2.5
10°-20°	923.9	7.1
20°-30°	1399.2	10.7
30°-40°	1677.4	12.9
40°-50°	1710.4	13.1
50°-60°	1493.0	11.4
60°-70°	1068.9	8.2
70°-80°	550.5	4.2
80°-90°	141.4	1.1
90°-100°	276.5	2.1
100°-110°	751.0	5.8
110°-120°	772.2	5.9
120°-130°	617.4	4.7
130°-140°	485.1	3.7
140°-150°	372.0	2.9
150°-160°	267.5	2.1
160°-170°	163.6	1.3
170°-180°	55.1	0.4
0°-30°	2645.0	20.3
0°-40°	4322.4	33.1
0°-60°	7525.8	57.7
0°-90°	9286.7	71.2
90°-120°	1799.7	13.8
90°-150°	3274.1	25.1
90°-180°	3760.0	28.8
0°-180°	13047.0	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°	2	7	13	17	17	6
95°	41	151	482	210	141	43
105°	133	208	826	1258	1183	142
115°	237	288	661	1315	1498	234
125°	326	371	598	1008	1189	291
135°	393	436	582	821	926	304
145°	454	486	574	698	750	285
155°	513	531	570	626	644	237
165°	556	563	572	596	598	157
175°	576	578	574	581	580	55
180°	576	576	576	576	576	

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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°	20.5	43.8	53.0	53.6	48.7
90°	1.9	7.3	13.0	16.7	16.7
92.5°	16.7	75.7	131.5	56.5	47.8
95°	40.7	151.2	481.5	209.5	140.7
97.5°	67.4	167.0	738.1	574.3	403.3
100°	85.2	177.5	816.7	827.8	668.5
102.5°	103.0	188.1	837.4	1023.8	883.3
105°	133.3	207.6	825.9	1257.5	1183.3
107.5°	164.8	230.4	778.1	1378.2	1398.9
110°	187.0	246.8	742.6	1402.0	1490.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	206.3	263.1	707.0	1382.3	1515.9
115°	237.0	287.7	661.1	1315.2	1498.1
117.5°	265.9	314.4	631.8	1220.2	1426.3
120°	285.2	332.3	618.5	1156.5	1361.1
122.5°	301.5	348.6	609.6	1092.6	1290.0
125°	325.9	371.2	598.1	1007.8	1188.9
127.5°	347.8	392.7	591.8	943.5	1098.9
130°	361.1	404.6	588.9	903.2	1042.6
132.5°	374.4	417.9	585.9	868.7	992.2
135°	392.6	436.0	581.5	820.9	925.9
137.5°	412.2	451.7	579.2	778.7	867.0
140°	424.1	462.1	577.8	751.8	831.5
142.5°	435.9	471.0	576.3	730.8	797.4
145°	453.7	486.3	574.1	697.5	750.0
147.5°	473.7	501.6	572.2	671.3	712.6
150°	487.0	510.6	572.2	656.3	688.9
152.5°	497.4	518.0	570.7	642.8	669.6
155°	513.0	531.1	570.4	626.3	644.4
157.5°	528.1	542.3	570.4	615.1	628.9
160°	537.0	549.7	570.4	607.6	618.5
162.5°	545.9	555.7	571.8	601.7	609.6
165°	555.5	562.8	572.2	596.3	598.1
167.5°	565.5	569.2	574.1	590.0	591.5
170°	568.5	572.1	574.1	587.0	587.0
172.5°	571.5	573.6	574.1	584.1	584.1
175°	575.9	577.7	574.1	581.4	579.6
177.5°	577.4	577.4	573.0	578.8	575.9
180°	575.9	575.9	575.9	575.9	575.9

(END OF REPORT)