

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: P562679

Luminaire Tested: **SQ4-PC3-050U-125D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562679  
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-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

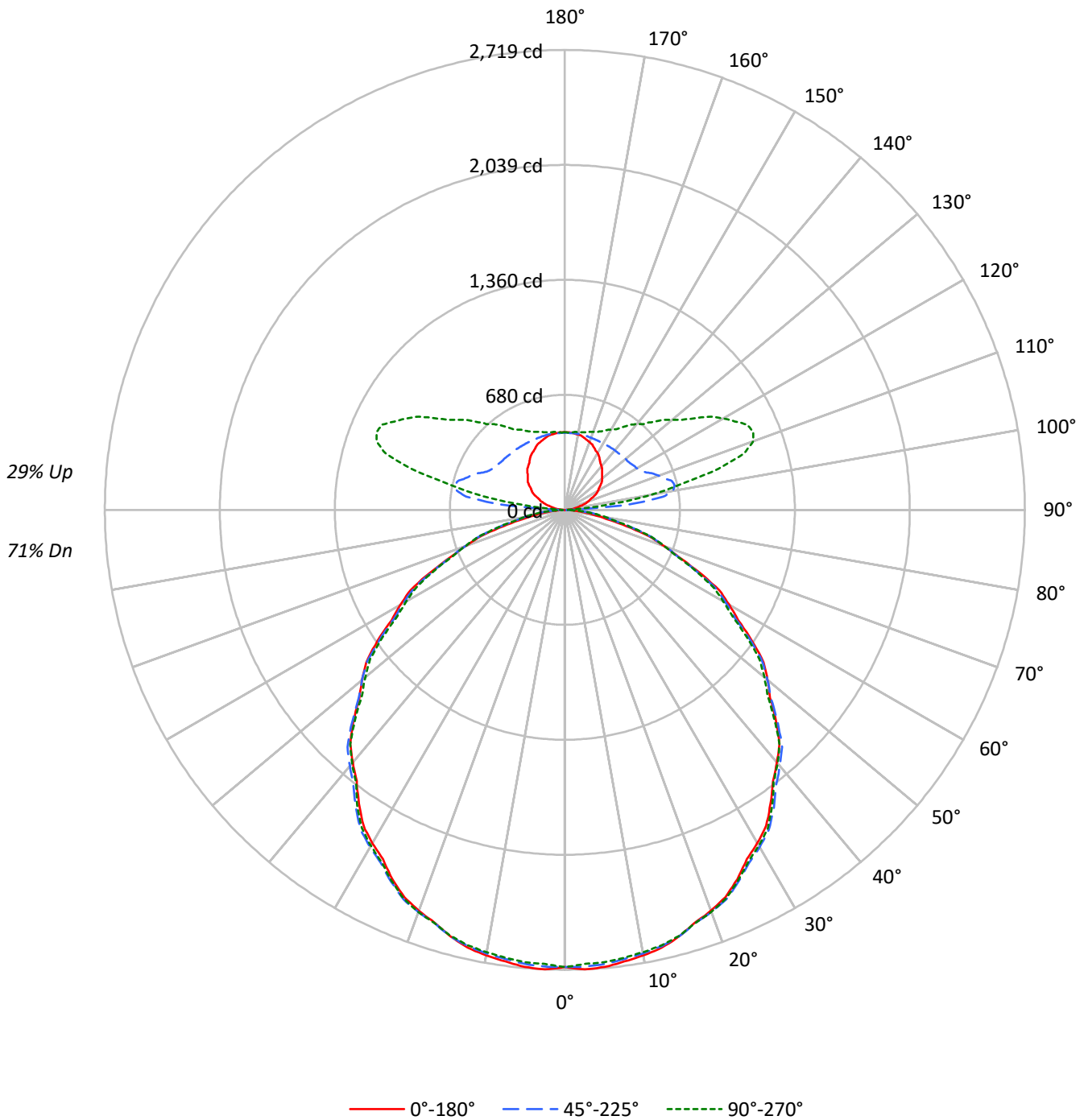
Lumens per Lamp: N/A  
Luminaire Lumens: 10366.9 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 87.8  
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°	16626	16626	16626
5°	16751	16643	16582
10°	16711	16633	16585
15°	16623	16623	16607
20°	16514	16563	16563
25°	16358	16477	16426
30°	16159	16354	16283
35°	15918	16163	16049
40°	15655	15876	15715
45°	15370	15479	15240
50°	14969	14969	14729
55°	14493	14305	14091
60°	13794	13517	13300
65°	12749	12495	12385
70°	11163	11252	11207
75°	8981	9934	9993
80°	6383	8423	8512
85°	3889	7064	7064



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	255.8	2.5
10°-20°	734.1	7.1
20°-30°	1111.7	10.7
30°-40°	1332.8	12.9
40°-50°	1359.0	13.1
50°-60°	1186.3	11.4
60°-70°	849.3	8.2
70°-80°	437.5	4.2
80°-90°	112.4	1.1
90°-100°	219.7	2.1
100°-110°	596.8	5.8
110°-120°	613.6	5.9
120°-130°	490.6	4.7
130°-140°	385.5	3.7
140°-150°	295.6	2.9
150°-160°	212.5	2.1
160°-170°	130.0	1.3
170°-180°	43.8	0.4
0°-30°	2101.7	20.3
0°-40°	3434.5	33.1
0°-60°	5979.9	57.7
0°-90°	7379.0	71.2
90°-120°	1430.0	13.8
90°-150°	2601.6	25.1
90°-180°	2988.0	28.8
0°-180°	10366.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2703	2703	2703	2703	2703	
5°	2713	2686	2696	2688	2686	258
15°	2610	2588	2610	2610	2608	736
25°	2410	2393	2428	2420	2420	1109
35°	2120	2115	2152	2137	2137	1326
45°	1767	1762	1780	1757	1752	1360
55°	1352	1334	1334	1314	1314	1205
65°	876	856	858	851	851	866
75°	378	395	418	420	420	408
85°	55	84	100	103	100	75
90°	2	6	10	13	13	4
95°	32	120	383	166	112	34
105°	106	165	656	999	940	113
115°	188	229	525	1045	1190	186
125°	259	295	475	801	945	231
135°	312	346	462	652	736	241
145°	360	386	456	554	596	226
155°	408	422	453	498	512	188
165°	441	447	455	474	475	125
175°	458	459	456	462	461	43
180°	458	458	458	458	458	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2703.1	2703.1	2703.1	2703.1	2703.1
2.5°	2719.1	2695.6	2703.1	2696.9	2687.1
5°	2713.1	2686.2	2695.6	2688.0	2685.6
7.5°	2693.6	2666.7	2679.1	2674.0	2671.6
10°	2675.6	2648.6	2663.1	2658.0	2655.5
12.5°	2651.5	2626.6	2643.0	2638.0	2637.5
15°	2610.5	2588.5	2610.5	2610.4	2608.0
17.5°	2558.9	2538.9	2562.4	2563.9	2562.4
20°	2522.9	2500.9	2530.4	2528.0	2530.4
22.5°	2478.8	2460.7	2492.4	2485.9	2488.4
25°	2410.3	2393.1	2427.8	2420.3	2420.3
27.5°	2329.2	2316.9	2354.7	2346.7	2346.7
30°	2275.1	2262.9	2302.6	2292.6	2292.6
32.5°	2215.0	2206.7	2244.6	2232.6	2232.6
35°	2119.9	2115.0	2152.5	2137.4	2137.4
37.5°	2021.8	2017.4	2051.4	2033.2	2027.3
40°	1949.7	1947.3	1977.3	1957.2	1957.2
42.5°	1877.7	1875.2	1901.2	1877.2	1877.2
45°	1767.0	1762.1	1779.5	1756.9	1752.0
47.5°	1646.4	1641.5	1652.4	1627.8	1625.4
50°	1564.3	1559.4	1564.3	1541.7	1539.3
52.5°	1480.2	1471.4	1472.2	1449.6	1449.2
55°	1351.5	1334.4	1334.0	1314.0	1314.0
57.5°	1215.4	1192.9	1194.9	1177.8	1175.3
60°	1121.3	1096.8	1098.8	1083.7	1081.2
62.5°	1029.2	1000.8	1006.7	989.6	989.1
65°	876.0	856.4	858.5	851.0	851.0
67.5°	728.8	710.7	723.8	717.8	717.3
70°	620.7	608.5	625.7	625.7	623.2
72.5°	520.6	520.1	541.6	541.7	543.1
75°	377.9	395.1	418.0	420.5	420.5
77.5°	252.3	282.6	307.9	308.8	308.4
80°	180.2	214.5	237.8	242.7	240.3
82.5°	122.1	158.4	177.7	182.7	180.2
85°	55.1	84.4	100.1	102.6	100.1
87.5°	16.3	34.8	42.1	42.6	38.7
90°	1.5	5.8	10.3	13.2	13.2
92.5°	13.2	60.1	104.5	44.9	38.0
95°	32.4	120.1	382.6	166.5	111.8
97.5°	53.6	132.7	586.5	456.3	320.5
100°	67.7	141.1	648.9	657.8	531.2
102.5°	81.8	149.4	665.4	813.5	701.9
105°	105.9	164.9	656.3	999.2	940.2
107.5°	131.0	183.0	618.3	1095.1	1111.5
110°	148.6	196.1	590.0	1114.0	1184.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	163.9	209.1	561.8	1098.3	1204.5
115°	188.3	228.6	525.3	1045.1	1190.4
117.5°	211.3	249.9	502.0	969.6	1133.3
120°	226.6	264.0	491.5	918.9	1081.5
122.5°	239.5	277.0	484.4	868.2	1025.0
125°	259.0	294.9	475.3	800.8	944.7
127.5°	276.3	312.0	470.3	749.7	873.1
130°	286.9	321.5	467.9	717.6	828.4
132.5°	297.5	332.1	465.6	690.3	788.4
135°	311.9	346.5	462.0	652.3	735.7
137.5°	327.5	358.9	460.3	618.7	688.9
140°	337.0	367.2	459.1	597.4	660.7
142.5°	346.4	374.3	457.9	580.6	633.6
145°	360.5	386.4	456.1	554.2	595.9
147.5°	376.4	398.5	454.7	533.4	566.2
150°	387.0	405.7	454.7	521.5	547.4
152.5°	395.2	411.6	453.5	510.8	532.1
155°	407.6	422.0	453.2	497.7	512.1
157.5°	419.6	430.9	453.2	488.8	499.7
160°	426.7	436.8	453.2	482.8	491.5
162.5°	433.8	441.5	454.4	478.1	484.4
165°	441.4	447.2	454.7	473.8	475.3
167.5°	449.4	452.2	456.1	468.8	470.0
170°	451.7	454.6	456.1	466.4	466.4
172.5°	454.1	455.8	456.1	464.1	464.1
175°	457.6	459.1	456.1	462.0	460.6
177.5°	458.8	458.8	455.3	459.9	457.6
180°	457.6	457.6	457.6	457.6	457.6

(END OF REPORT)