

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: P562545

Luminaire Tested: **SQ4-PC3-025U-075D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562545  
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-075D-935-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

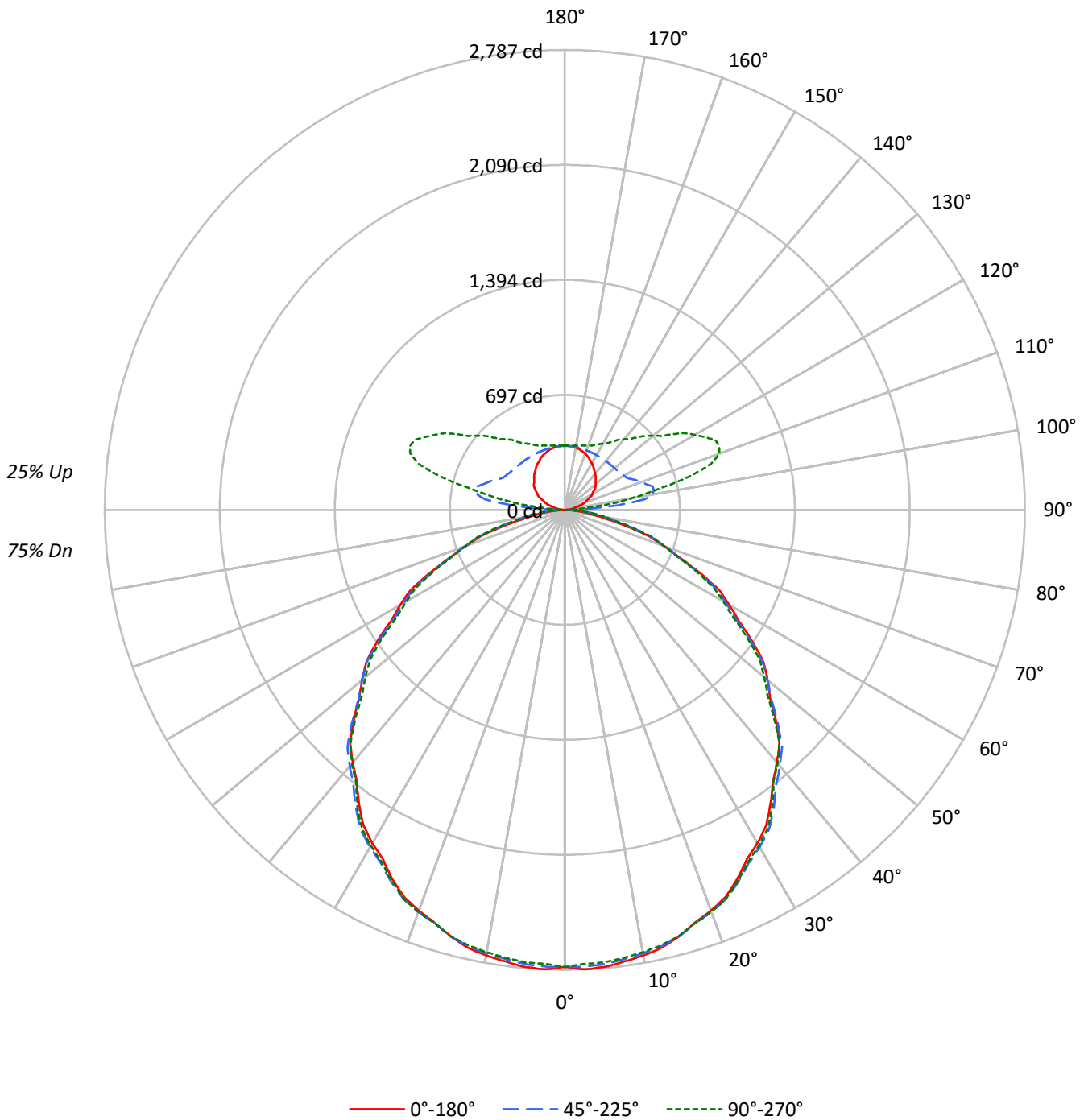
Lumens per Lamp: N/A  
Luminaire Lumens: 10080.7 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 94.8  
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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	103	99	95	91	98	94	91	88	86	83	80	78	75	73	70	69	67	63
2	94	87	80	75	89	83	77	72	75	71	67	68	65	61	62	59	57	53
3	86	76	68	62	81	73	66	60	66	61	56	60	56	52	55	51	48	45
4	79	67	59	53	75	64	57	51	59	53	48	54	49	45	49	45	41	38
5	72	60	52	45	69	58	50	44	53	46	41	48	43	39	44	40	36	33
6	67	54	46	39	63	52	44	38	48	41	36	44	38	34	40	35	32	29
7	62	49	41	35	59	47	39	34	43	37	32	40	34	30	36	32	28	26
8	57	45	36	31	55	43	35	30	39	33	28	36	31	27	33	29	25	23
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	31	26	23	21
10	50	38	30	25	48	36	29	24	33	27	23	31	26	22	29	24	21	19

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8520	8520	8520
5°	8584	8529	8497
10°	8563	8523	8499
15°	8518	8518	8510
20°	8462	8487	8487
25°	8382	8443	8417
30°	8280	8380	8344
35°	8157	8282	8224
40°	8022	8136	8053
45°	7877	7932	7810
50°	7670	7670	7548
55°	7427	7331	7221
60°	7069	6926	6816
65°	6533	6402	6346
70°	5721	5766	5743
75°	4602	5090	5120
80°	3271	4316	4362
85°	1990	3620	3620



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.2	2.6
10°-20°	752.4	7.5
20°-30°	1139.4	11.3
30°-40°	1366.0	13.6
40°-50°	1392.8	13.8
50°-60°	1215.9	12.1
60°-70°	870.4	8.6
70°-80°	448.3	4.4
80°-90°	115.4	1.1
90°-100°	189.3	1.9
100°-110°	497.7	4.9
110°-120°	516.1	5.1
120°-130°	414.0	4.1
130°-140°	324.8	3.2
140°-150°	249.3	2.5
150°-160°	179.6	1.8
160°-170°	109.9	1.1
170°-180°	37.1	0.4
0°-30°	2154.0	21.4
0°-40°	3520.0	34.9
0°-60°	6128.7	60.8
0°-90°	7562.9	75.0
90°-120°	1203.2	11.9
90°-150°	2191.3	21.7
90°-180°	2518.0	25.0
0°-180°	10080.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2770	2770	2770	2770	2770	
5°	2781	2753	2763	2755	2752	264
15°	2675	2653	2675	2675	2673	754
25°	2470	2453	2488	2480	2480	1137
35°	2173	2168	2206	2191	2191	1359
45°	1811	1806	1824	1801	1796	1394
55°	1385	1368	1367	1347	1347	1235
65°	898	878	880	872	872	888
75°	387	405	428	431	431	419
85°	56	86	103	105	103	77
90°	2	7	20	10	10	4
95°	25	98	326	168	114	28
105°	90	136	550	835	779	95
115°	159	194	441	879	1004	157
125°	222	248	401	678	799	197
135°	264	291	388	547	620	204
145°	306	326	384	466	503	192
155°	346	356	384	421	433	159
165°	374	378	384	398	403	105
175°	388	388	386	391	391	37
180°	388	388	388	388	388	

TEST NUMBER: P562545

CATALOG NUMBER: SQ4-PC3-025U-075D-935-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2770.3	2770.3	2770.3	2770.3	2770.3
2.5°	2786.8	2762.7	2770.3	2764.0	2753.9
5°	2780.6	2753.0	2762.6	2754.9	2752.4
7.5°	2760.6	2733.0	2745.7	2740.5	2738.0
10°	2742.1	2714.5	2729.3	2724.1	2721.6
12.5°	2717.5	2691.9	2708.8	2703.6	2703.1
15°	2675.4	2652.9	2675.4	2675.4	2672.9
17.5°	2622.6	2602.0	2626.2	2627.7	2626.2
20°	2585.7	2563.1	2593.3	2590.8	2593.3
22.5°	2540.5	2521.9	2554.4	2547.7	2550.3
25°	2470.2	2452.7	2488.2	2480.5	2480.5
27.5°	2387.1	2374.6	2413.3	2405.1	2405.1
30°	2331.7	2319.2	2359.9	2349.7	2349.7
32.5°	2270.1	2261.6	2300.4	2288.1	2288.1
35°	2172.7	2167.7	2206.0	2190.6	2190.6
37.5°	2072.1	2067.6	2102.4	2083.8	2077.8
40°	1998.2	1995.7	2026.5	2005.9	2005.9
42.5°	1924.4	1921.9	1948.5	1923.8	1923.8
45°	1811.0	1806.0	1823.8	1800.6	1795.6
47.5°	1687.3	1682.3	1693.5	1668.3	1665.8
50°	1603.2	1598.2	1603.2	1580.1	1577.6
52.5°	1517.0	1508.0	1508.8	1485.7	1485.2
55°	1385.2	1367.6	1367.2	1346.7	1346.7
57.5°	1245.6	1222.6	1224.6	1207.1	1204.6
60°	1149.2	1124.1	1126.1	1110.6	1108.1
62.5°	1054.8	1025.7	1031.7	1014.2	1013.7
65°	897.8	877.7	879.8	872.1	872.1
67.5°	747.0	728.4	741.8	735.7	735.2
70°	636.2	623.6	641.3	641.2	638.7
72.5°	533.5	533.0	555.1	555.1	556.6
75°	387.3	404.9	428.4	430.9	430.9
77.5°	258.6	289.7	315.5	316.5	316.0
80°	184.7	219.8	243.7	248.8	246.3
82.5°	125.2	162.3	182.1	187.2	184.7
85°	56.4	86.5	102.6	105.1	102.6
87.5°	16.9	35.9	45.0	42.9	38.9
90°	2.5	7.4	19.9	10.0	10.0
92.5°	10.5	50.4	111.6	49.4	31.9
95°	24.9	97.9	326.2	168.1	114.5
97.5°	43.3	107.6	488.1	388.1	285.9
100°	57.3	115.7	537.9	545.1	423.3
102.5°	69.2	123.8	551.8	678.9	574.7
105°	89.6	135.9	550.3	835.4	779.4
107.5°	110.6	153.4	518.9	916.7	930.3
110°	124.5	163.5	493.0	937.6	996.1



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CATALOG NUMBER: SQ4-PC3-025U-075D-935-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	138.5	175.5	469.1	924.4	1014.0
115°	159.4	193.5	440.8	879.3	1003.5
117.5°	179.8	211.0	421.3	816.9	954.7
120°	191.7	221.0	413.4	775.0	908.9
122.5°	203.7	232.9	407.4	733.1	865.1
125°	221.6	248.4	400.9	677.6	799.3
127.5°	236.1	263.3	395.4	632.8	735.6
130°	244.0	273.2	393.4	604.8	699.7
132.5°	252.0	281.2	391.4	580.6	665.9
135°	264.0	290.7	388.5	547.0	620.0
137.5°	276.4	302.7	388.0	521.8	581.7
140°	286.4	310.7	386.0	501.8	557.8
142.5°	294.3	316.7	386.0	487.7	535.9
145°	306.3	325.8	383.5	466.5	503.0
147.5°	318.2	337.2	383.5	448.9	479.1
150°	326.2	343.3	383.5	438.8	463.2
152.5°	334.2	347.3	383.5	430.7	449.2
155°	346.1	355.9	383.5	421.1	433.3
157.5°	355.1	364.3	383.5	412.6	421.3
160°	361.1	368.4	383.5	408.5	413.4
162.5°	367.0	372.4	383.5	404.5	409.4
165°	373.5	378.4	383.5	398.5	403.4
167.5°	379.5	381.9	386.0	396.0	397.9
170°	383.5	385.9	386.0	395.9	395.9
172.5°	385.5	386.0	386.0	393.9	391.9
175°	388.5	388.5	386.0	390.9	390.9
177.5°	388.5	388.5	386.5	390.4	388.5
180°	388.5	388.5	388.5	388.5	388.5

(END OF REPORT)