

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: P562641

Luminaire Tested: **SQ4-PC3-050U-075D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562641  
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-075D-935-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

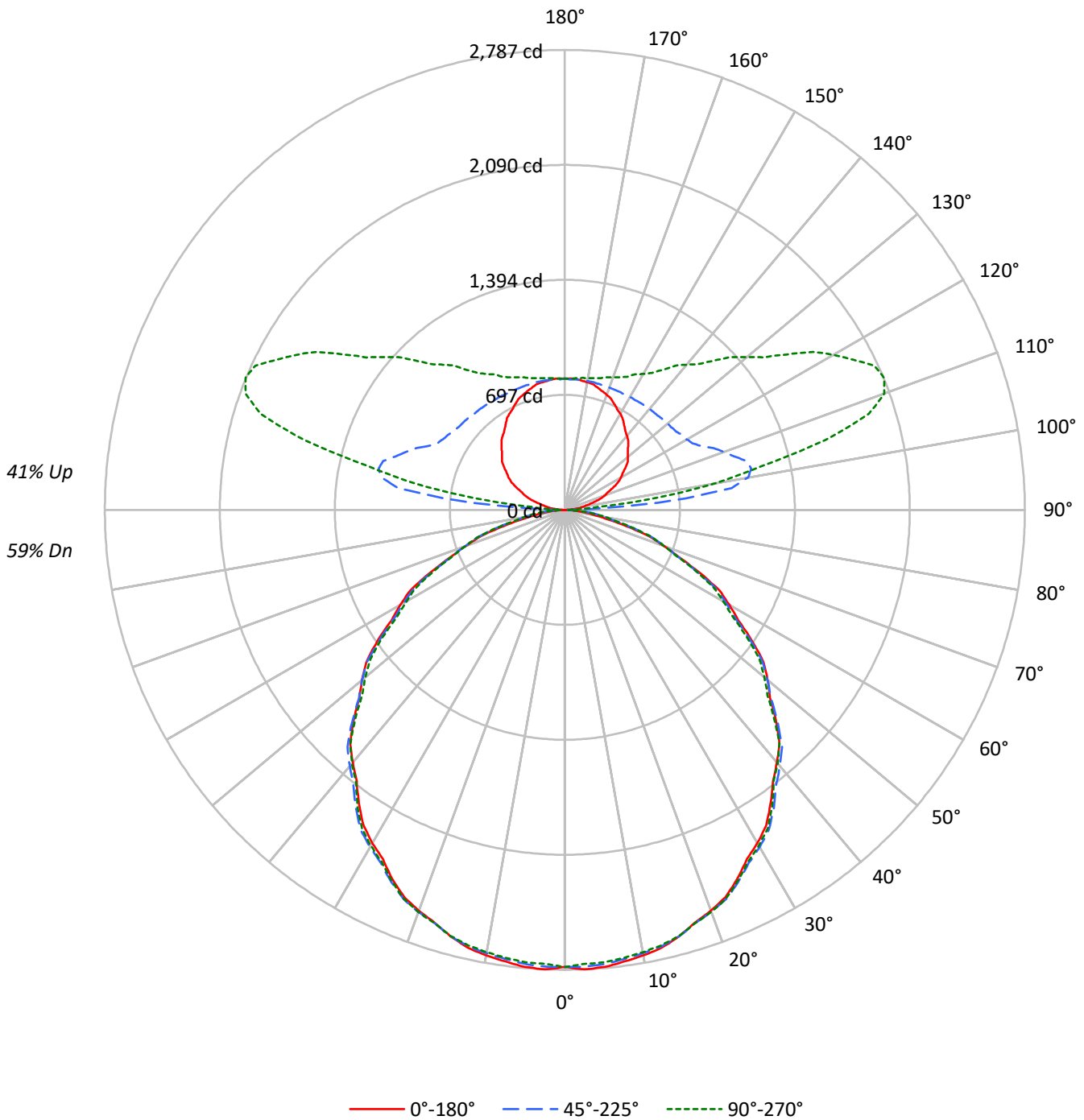
Lumens per Lamp: N/A  
Luminaire Lumens: 12756.1 lumens  
Efficiency: N/A  
Efficacy: 120.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 105.6  
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	65	65	65	59
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	57	56	55	50
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	36
4	76	65	57	51	71	61	54	48	53	48	43	46	42	38	40	37	34	30
5	70	58	50	43	65	54	47	41	48	42	37	42	37	33	36	32	29	26
6	64	52	44	38	60	49	41	36	43	37	33	38	33	29	33	29	26	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	30	26	23	20
8	55	43	35	29	51	40	33	28	36	30	25	31	26	23	27	23	21	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	21	27	22	19	23	20	17	15

**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	2.1
10°-20°	752.4	5.9
20°-30°	1139.4	8.9
30°-40°	1366.0	10.7
40°-50°	1392.8	10.9
50°-60°	1215.9	9.5
60°-70°	870.4	6.8
70°-80°	448.3	3.5
80°-90°	116.4	0.9
90°-100°	381.7	3.0
100°-110°	1037.0	8.1
110°-120°	1066.3	8.4
120°-130°	852.5	6.7
130°-140°	669.8	5.3
140°-150°	513.6	4.0
150°-160°	369.4	2.9
160°-170°	225.9	1.8
170°-180°	76.1	0.6
0°-30°	2154.0	16.9
0°-40°	3520.0	27.6
0°-60°	6128.7	48.0
0°-90°	7563.8	59.3
90°-120°	2485.0	19.5
90°-150°	4521.0	35.4
90°-180°	5192.0	40.7
0°-180°	12756.1	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°	3	10	18	23	23	6
95°	56	209	665	289	194	60
105°	184	287	1140	1736	1634	196
115°	327	397	913	1816	2069	323
125°	450	512	826	1392	1642	401
135°	542	602	803	1134	1278	419
145°	626	672	793	963	1036	393
155°	708	733	788	865	890	327
165°	767	777	790	823	826	217
175°	795	798	793	803	800	76
180°	795	795	795	795	795	

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**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	36.5	44.6	45.6	41.5
90°	2.6	10.1	17.9	23.0	23.0
92.5°	23.0	104.5	181.5	78.0	66.0
95°	56.3	208.8	664.8	289.3	194.3
97.5°	93.1	230.6	1019.2	792.9	556.9
100°	117.6	245.1	1127.6	1143.1	923.1
102.5°	142.2	259.7	1156.3	1413.7	1219.7
105°	184.1	286.6	1140.4	1736.4	1633.9
107.5°	227.6	318.1	1074.5	1903.1	1931.6
110°	258.3	340.8	1025.4	1935.9	2058.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	284.9	363.4	976.3	1908.7	2093.2
115°	327.3	397.3	912.9	1816.1	2068.6
117.5°	367.2	434.2	872.5	1684.9	1969.4
120°	393.8	458.8	854.0	1596.9	1879.4
122.5°	416.3	481.3	841.8	1508.7	1781.2
125°	450.0	512.5	825.9	1391.6	1641.6
127.5°	480.2	542.2	817.2	1302.8	1517.3
130°	498.6	558.6	813.1	1247.1	1439.6
132.5°	517.0	577.0	809.0	1199.5	1370.0
135°	542.1	602.1	802.9	1133.5	1278.5
137.5°	569.2	623.7	799.8	1075.2	1197.2
140°	585.6	638.1	797.8	1038.1	1148.1
142.5°	601.9	650.4	795.7	1009.0	1101.0
145°	626.5	671.5	792.7	963.1	1035.6
147.5°	654.1	692.6	790.1	926.9	983.9
150°	672.5	705.0	790.1	906.2	951.2
152.5°	686.8	715.3	788.1	887.6	924.6
155°	708.3	733.3	787.6	864.8	889.8
157.5°	729.3	748.8	787.6	849.4	868.4
160°	741.5	759.0	787.6	839.0	854.0
162.5°	753.8	767.3	789.6	830.8	841.8
165°	767.1	777.1	790.1	823.4	825.9
167.5°	780.9	785.9	792.7	814.7	816.7
170°	785.0	790.0	792.7	810.6	810.6
172.5°	789.1	792.1	792.7	806.5	806.5
175°	795.2	797.7	792.7	802.8	800.3
177.5°	797.3	797.3	791.1	799.2	795.2
180°	795.2	795.2	795.2	795.2	795.2

(END OF REPORT)