

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: P563168

Luminaire Tested: **SQ4-PC3-150U-125D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563168  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PC3-150U-125D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

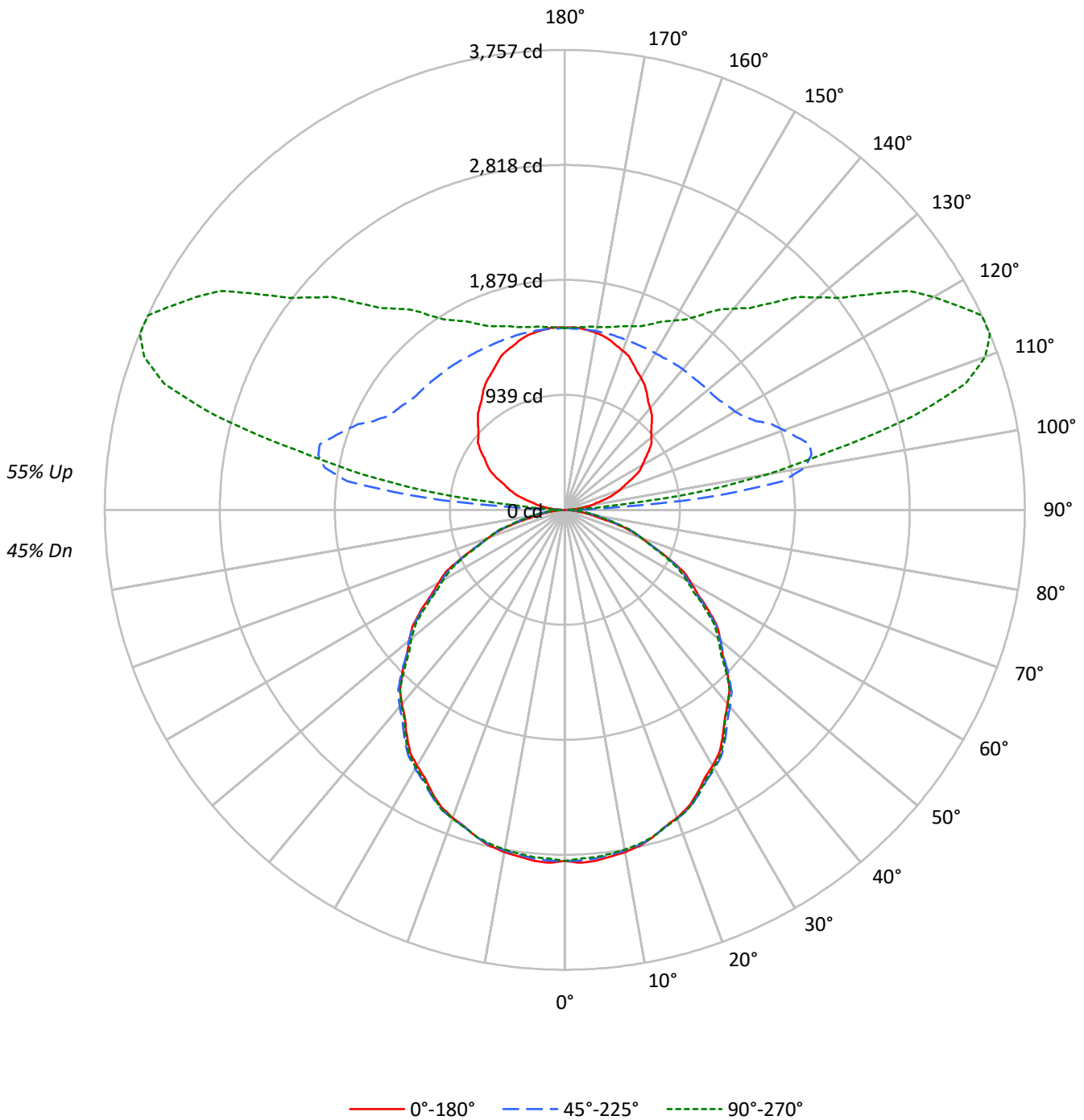
Lumens per Lamp: N/A  
Luminaire Lumens: 17417.6 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 167.8  
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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	51	51	51	45
1	97	92	89	85	88	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	80	74	69	65	62	58	55	51	48	46	40	38	37	32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	36	33	31	27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	61	51	44	39	43	38	34	36	32	28	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	20	18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	49	37	30	25	45	35	28	23	29	24	20	24	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

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

	0°	45°	90°
0°	13230	13230	13230
5°	13330	13244	13195
10°	13298	13235	13198
15°	13228	13228	13215
20°	13141	13180	13180
25°	13017	13111	13071
30°	12858	13014	12957
35°	12667	12861	12771
40°	12458	12634	12505
45°	12231	12318	12127
50°	11911	11911	11721
55°	11533	11384	11213
60°	10976	10756	10584
65°	10145	9943	9856
70°	8883	8955	8918
75°	7147	7905	7951
80°	5079	6703	6772
85°	3091	5621	5621



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.4	1.6
10°-20°	778.9	4.5
20°-30°	1179.6	6.8
30°-40°	1414.1	8.1
40°-50°	1441.9	8.3
50°-60°	1258.7	7.2
60°-70°	901.1	5.2
70°-80°	464.1	2.7
80°-90°	120.5	0.7
90°-100°	691.1	4.0
100°-110°	1868.5	10.7
110°-120°	1964.4	11.3
120°-130°	1595.6	9.2
130°-140°	1251.7	7.2
140°-150°	960.7	5.5
150°-160°	690.9	4.0
160°-170°	422.1	2.4
170°-180°	142.3	0.8
0°-30°	2229.9	12.8
0°-40°	3644.0	20.9
0°-60°	6344.7	36.4
0°-90°	7830.4	45.0
90°-120°	4524.0	26.0
90°-150°	8331.9	47.8
90°-180°	9587.0	55.0
0°-180°	17417.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2868	2868	2868	2868	2868	
5°	2879	2850	2860	2852	2849	273
15°	2770	2746	2770	2770	2767	781
25°	2557	2539	2576	2568	2568	1177
35°	2249	2244	2284	2268	2268	1407
45°	1875	1870	1888	1864	1859	1443
55°	1434	1416	1415	1394	1394	1278
65°	929	909	911	903	903	919
75°	401	419	444	446	446	433
85°	58	90	106	109	106	79
90°	3	10	21	22	21	10
95°	107	376	1149	595	354	112
105°	347	537	2073	3058	2932	366
115°	611	748	1719	3328	3757	604
125°	837	959	1549	2615	3072	746
135°	1004	1122	1508	2111	2390	776
145°	1167	1254	1487	1807	1945	730
155°	1317	1369	1474	1621	1674	608
165°	1434	1448	1481	1538	1546	404
175°	1489	1487	1482	1501	1498	141
180°	1487	1487	1487	1487	1487	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2868.0	2868.0	2868.0	2868.0	2868.0
2.5°	2885.0	2860.1	2868.0	2861.4	2851.0
5°	2878.6	2850.1	2860.0	2852.0	2849.4
7.5°	2857.9	2829.4	2842.5	2837.1	2834.5
10°	2838.8	2810.2	2825.5	2820.1	2817.5
12.5°	2813.3	2786.8	2804.3	2798.9	2798.4
15°	2769.7	2746.4	2769.7	2769.7	2767.1
17.5°	2715.0	2693.8	2718.8	2720.3	2718.8
20°	2676.8	2653.4	2684.8	2682.2	2684.8
22.5°	2630.1	2610.9	2644.4	2637.6	2640.2
25°	2557.3	2539.1	2575.9	2567.9	2567.9
27.5°	2471.3	2458.3	2498.3	2489.9	2489.9
30°	2413.9	2400.9	2443.1	2432.5	2432.5
32.5°	2350.2	2341.3	2381.5	2368.8	2368.8
35°	2249.3	2244.1	2283.8	2267.8	2267.8
37.5°	2145.2	2140.5	2176.5	2157.2	2151.0
40°	2068.7	2066.1	2097.9	2076.6	2076.6
42.5°	1992.2	1989.6	2017.2	1991.7	1991.7
45°	1874.8	1869.6	1888.1	1864.1	1858.9
47.5°	1746.8	1741.6	1753.2	1727.1	1724.5
50°	1659.7	1654.5	1659.7	1635.8	1633.2
52.5°	1570.5	1561.1	1562.0	1538.1	1537.6
55°	1434.0	1415.8	1415.4	1394.2	1394.2
57.5°	1289.5	1265.7	1267.8	1249.6	1247.1
60°	1189.7	1163.7	1165.8	1149.8	1147.2
62.5°	1092.0	1061.8	1068.1	1050.0	1049.5
65°	929.4	908.7	910.9	902.9	902.9
67.5°	773.3	754.1	768.0	761.6	761.1
70°	658.6	645.6	663.9	663.8	661.2
72.5°	552.4	551.8	574.7	574.7	576.3
75°	401.0	419.2	443.5	446.1	446.1
77.5°	267.7	299.9	326.6	327.7	327.2
80°	191.2	227.6	252.3	257.5	254.9
82.5°	129.6	168.0	188.5	193.8	191.2
85°	58.4	89.6	106.2	108.8	106.2
87.5°	17.6	37.6	46.7	46.9	42.4
90°	3.2	9.5	20.8	22.4	20.8
92.5°	45.5	165.7	326.8	141.9	102.8
95°	107.2	376.4	1149.3	594.8	353.7
97.5°	172.2	431.7	1791.4	1482.5	1088.8
100°	220.9	454.1	1991.2	2076.6	1679.1
102.5°	265.7	485.1	2061.6	2527.0	2229.7
105°	347.3	536.7	2072.8	3057.6	2932.4
107.5°	422.9	595.7	1982.2	3388.5	3430.2
110°	481.8	638.3	1901.6	3477.4	3654.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	534.3	680.8	1827.3	3459.6	3756.7
115°	611.4	747.6	1719.1	3327.9	3756.7
117.5°	687.0	814.7	1647.7	3126.5	3612.6
120°	733.1	858.3	1605.4	2982.1	3478.2
122.5°	776.6	899.3	1579.8	2827.2	3327.1
125°	837.1	959.2	1549.4	2614.6	3071.6
127.5°	892.8	1012.7	1531.5	2441.1	2843.0
130°	923.6	1047.2	1523.8	2334.0	2697.1
132.5°	955.6	1078.0	1516.1	2237.3	2571.6
135°	1003.6	1122.5	1507.8	2111.2	2389.7
137.5°	1051.9	1164.3	1500.8	2008.8	2235.8
140°	1085.2	1190.1	1498.2	1943.0	2144.9
142.5°	1117.2	1215.8	1493.1	1883.5	2060.3
145°	1166.9	1254.5	1487.0	1807.0	1944.8
147.5°	1212.0	1289.6	1479.9	1737.8	1843.6
150°	1245.3	1314.2	1477.4	1700.2	1784.7
152.5°	1276.0	1336.1	1476.1	1665.3	1734.8
155°	1317.3	1369.0	1474.2	1621.1	1674.3
157.5°	1360.2	1396.2	1474.5	1590.2	1625.3
160°	1384.5	1414.3	1475.8	1570.8	1595.8
162.5°	1403.8	1428.5	1477.1	1555.3	1574.1
165°	1434.2	1448.3	1480.6	1538.4	1546.2
167.5°	1455.0	1464.7	1480.9	1523.9	1527.6
170°	1467.8	1472.5	1482.2	1517.4	1517.4
172.5°	1478.0	1479.0	1482.2	1509.7	1508.4
175°	1488.6	1487.0	1482.2	1501.3	1498.2
177.5°	1492.1	1488.4	1481.9	1494.6	1490.8
180°	1487.0	1487.0	1487.0	1487.0	1487.0

(END OF REPORT)