

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: P563072

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

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563072  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PC3-125U-125D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

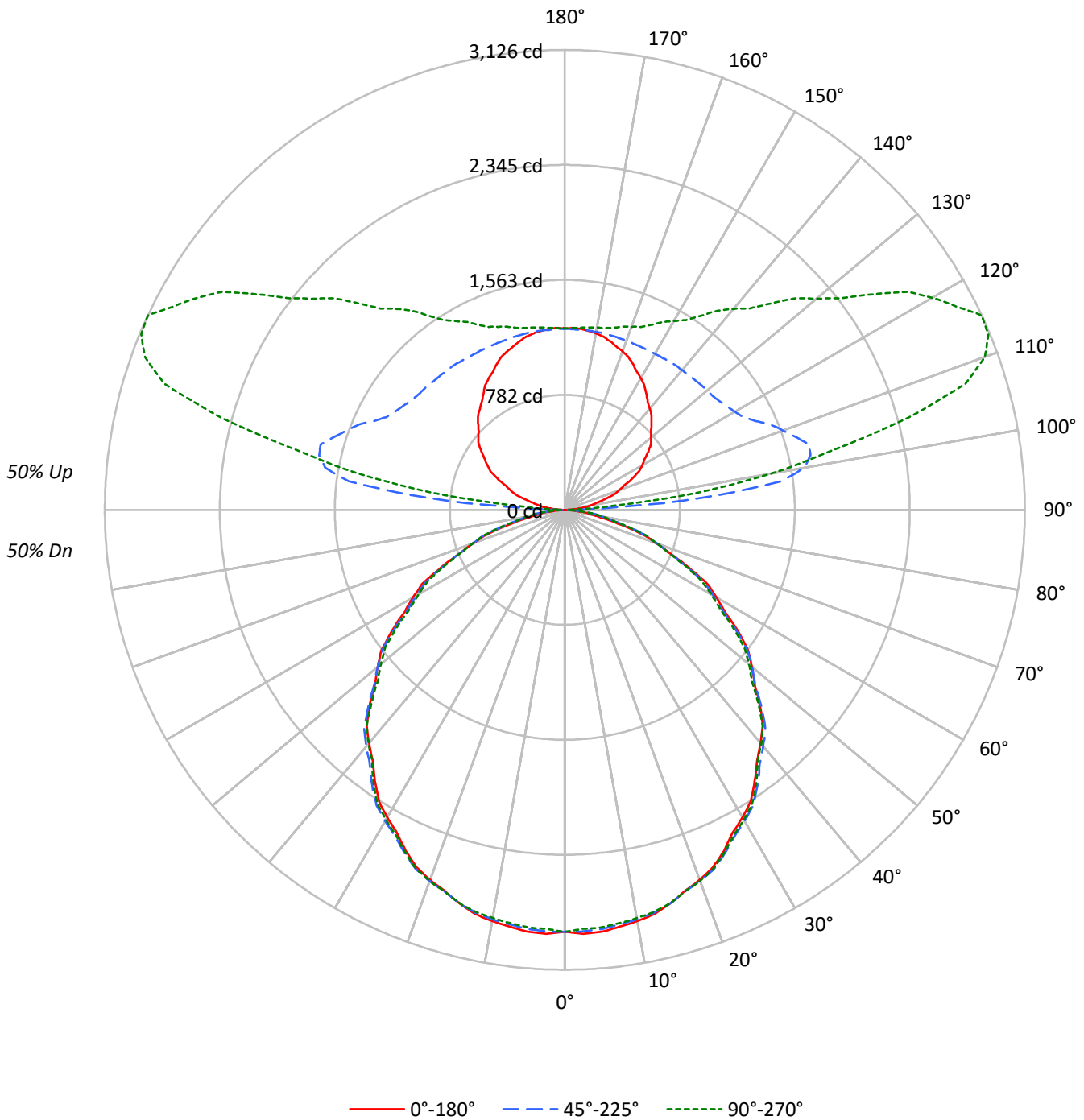
Lumens per Lamp: N/A  
Luminaire Lumens: 15786.7 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 152.7  
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	82	75	70	82	75	70	66	64	60	57	53	50	48	43	42	40	35
3	81	72	64	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	63	56	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	19	22	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

**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	1.7
10°-20°	778.9	4.9
20°-30°	1179.6	7.5
30°-40°	1414.1	9.0
40°-50°	1441.9	9.1
50°-60°	1258.7	8.0
60°-70°	901.1	5.7
70°-80°	464.1	2.9
80°-90°	120.2	0.8
90°-100°	576.6	3.7
100°-110°	1553.1	9.8
110°-120°	1629.9	10.3
120°-130°	1322.7	8.4
130°-140°	1037.3	6.6
140°-150°	796.4	5.0
150°-160°	572.6	3.6
160°-170°	349.8	2.2
170°-180°	118.0	0.7
0°-30°	2229.9	14.1
0°-40°	3644.0	23.1
0°-60°	6344.7	40.2
0°-90°	7830.2	49.6
90°-120°	3759.6	23.8
90°-150°	6916.0	43.8
90°-180°	7956.0	50.4
0°-180°	15786.7	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	9	19	20	20	9
95°	88	314	945	483	334	92
105°	287	447	1718	2570	2412	302
115°	507	621	1430	2764	3126	499
125°	692	795	1284	2171	2554	618
135°	834	930	1248	1751	1983	643
145°	964	1039	1232	1497	1608	605
155°	1094	1134	1222	1343	1386	504
165°	1187	1201	1226	1275	1281	335
175°	1234	1232	1228	1245	1242	117
180°	1232	1232	1232	1232	1232	

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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	37.5	46.3	46.5	42.3
90°	3.1	9.3	18.8	20.4	20.4
92.5°	38.3	135.3	267.5	128.8	89.5
95°	87.9	313.6	945.2	483.3	334.4
97.5°	140.4	359.0	1482.4	1238.4	933.9
100°	180.6	377.1	1653.3	1729.8	1435.0
102.5°	219.5	402.5	1709.8	2097.7	1855.8
105°	287.3	447.0	1717.6	2569.7	2411.6
107.5°	351.4	493.8	1644.5	2812.3	2853.1
110°	394.1	529.2	1577.9	2887.6	3036.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	439.3	564.6	1513.8	2870.9	<i>3115.6</i>
115°	<i>507.1</i>	<i>620.7</i>	<i>1430.3</i>	<i>2763.7</i>	<i>3126.0</i>
117.5°	569.0	675.5	1365.6	2592.5	<i>2996.0</i>
120°	609.2	712.0	1333.0	2469.7	<i>2884.2</i>
122.5°	644.4	746.0	1309.1	2344.1	<i>2757.3</i>
125°	692.4	795.3	1284.3	2170.7	<i>2554.5</i>
127.5°	738.6	839.9	1268.6	2017.8	<i>2360.4</i>
130°	766.2	867.5	1262.3	1930.2	<i>2231.1</i>
132.5°	793.8	893.9	1256.0	1853.0	<i>2129.3</i>
135°	833.7	930.4	1248.2	1751.2	<i>1983.0</i>
137.5°	871.7	964.4	1244.1	1664.8	<i>1855.2</i>
140°	898.1	987.1	1240.3	1611.6	<i>1783.6</i>
142.5°	925.7	1008.6	1237.8	1562.0	<i>1707.0</i>
145°	964.0	1039.2	1232.5	1497.2	<i>1607.7</i>
147.5°	1005.5	1070.9	1227.2	1442.7	<i>1529.5</i>
150°	1033.1	1089.9	1224.6	1408.4	<i>1480.6</i>
152.5°	1058.2	1107.7	1223.4	1380.5	<i>1439.1</i>
155°	1094.3	1134.2	1221.5	1343.4	<i>1386.4</i>
157.5°	1126.0	1157.1	1221.8	1317.3	<i>1346.2</i>
160°	1146.1	1172.2	1223.1	1302.1	<i>1323.6</i>
162.5°	1163.7	1184.9	1224.3	1289.4	<i>1304.7</i>
165°	1187.0	1200.8	1226.2	1275.0	<i>1281.2</i>
167.5°	1205.8	1213.8	1227.8	1264.0	<i>1266.4</i>
170°	1218.4	1221.4	1227.8	1257.6	<i>1257.6</i>
172.5°	1225.9	1226.5	1229.0	1251.3	<i>1251.3</i>
175°	1234.1	1232.5	1227.8	1245.0	<i>1241.9</i>
177.5°	1237.5	1235.1	1228.7	1238.7	<i>1236.3</i>
180°	1232.5	1232.5	1232.5	1232.5	<i>1232.5</i>

(END OF REPORT)