

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: P564392

Luminaire Tested: **SQ4-PR1-125U-100D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564392  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-125U-100D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

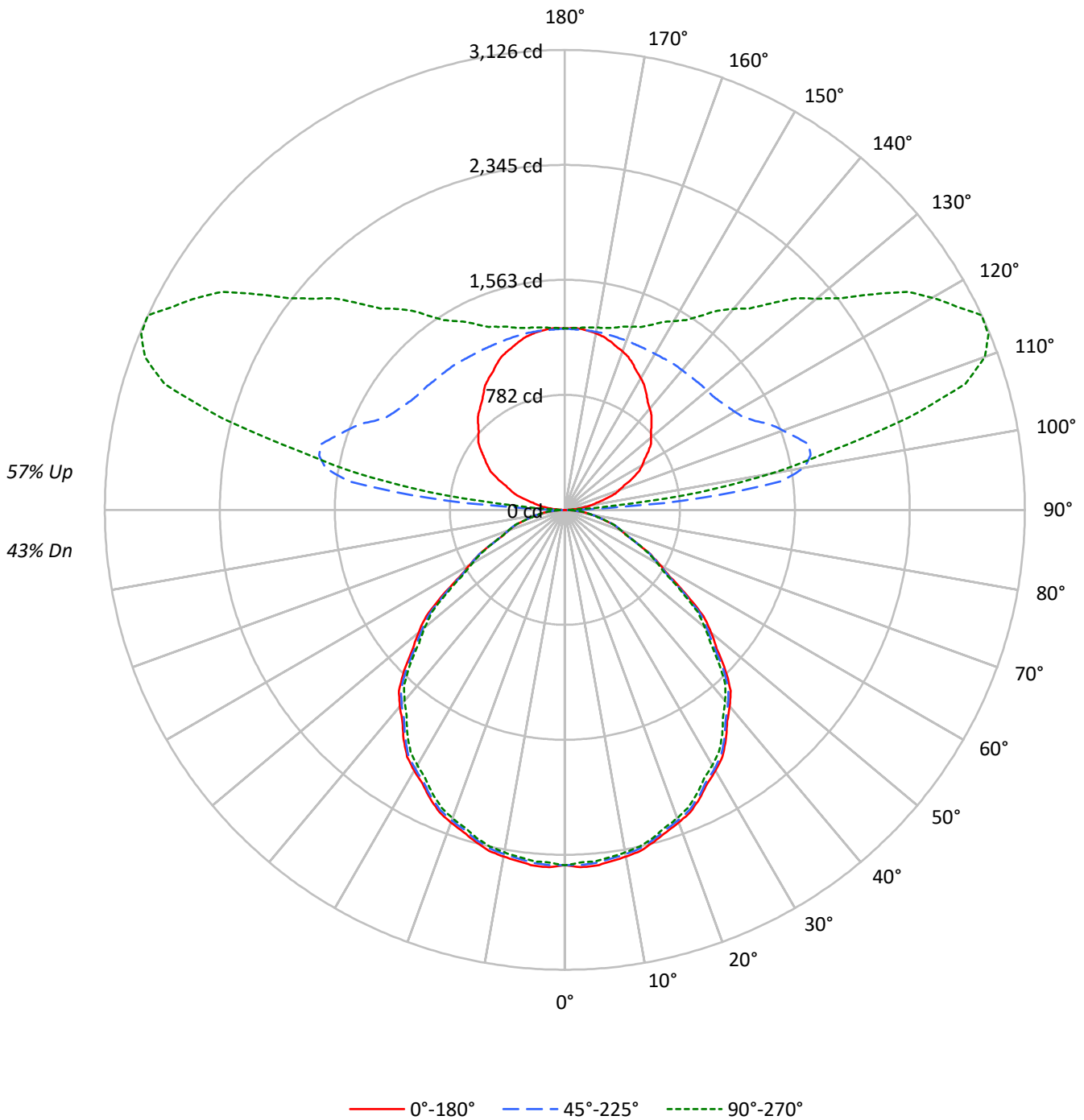
Lumens per Lamp: N/A  
Luminaire Lumens: 13999.0 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 133.3  
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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50	43	43	43
1	96	92	89	85	88	85	81	78	70	68	66	57	55	54	44	43	43	37	37	37
2	88	81	75	70	80	74	69	65	62	58	55	50	48	45	39	38	36	31	31	31
3	80	71	64	59	73	65	59	54	55	50	46	44	41	39	35	33	31	27	27	27
4	74	63	55	50	67	58	51	46	49	44	40	40	36	33	31	29	27	23	23	23
5	68	56	48	43	62	52	45	40	44	38	34	36	32	29	28	26	24	20	20	20
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	26	23	21	18	18	18
7	58	46	38	32	53	42	35	30	36	30	26	29	25	22	24	21	19	16	16	16
8	53	41	34	29	49	38	32	27	32	27	23	27	23	20	22	19	17	14	14	14
9	50	38	30	25	45	35	28	24	30	25	21	25	21	18	20	17	15	13	13	13
10	46	35	27	23	42	32	26	21	27	22	19	23	19	16	19	16	14	12	12	12

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

	0°	45°	90°
0°	11145	11145	11145
5°	11246	11159	11101
10°	11210	11132	11073
15°	11161	11091	11031
20°	11105	11033	10951
25°	11026	10952	10825
30°	10907	10830	10674
35°	10746	10653	10500
40°	10501	10389	10201
45°	10074	9897	9693
50°	9319	9095	8916
55°	8134	7949	7782
60°	6854	6797	6662
65°	5928	5951	5905
70°	5445	5473	5473
75°	5229	5229	5267
80°	4920	4976	4920
85°	3964	4404	4404



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.5	1.6
10°-20°	653.7	4.7
20°-30°	985.9	7.0
30°-40°	1174.7	8.4
40°-50°	1158.2	8.3
50°-60°	885.1	6.3
60°-70°	547.8	3.9
70°-80°	311.1	2.2
80°-90°	97.5	0.7
90°-100°	576.6	4.1
100°-110°	1553.1	11.1
110°-120°	1629.9	11.6
120°-130°	1322.7	9.4
130°-140°	1037.3	7.4
140°-150°	796.4	5.7
150°-160°	572.6	4.1
160°-170°	349.8	2.5
170°-180°	118.0	0.8
0°-30°	1868.1	13.3
0°-40°	3042.8	21.7
0°-60°	5086.1	36.3
0°-90°	6042.5	43.2
90°-120°	3759.6	26.9
90°-150°	6916.0	49.4
90°-180°	7956.0	56.8
0°-180°	13999.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2416	2416	2416	2416	2416	
5°	2428	2402	2410	2401	2397	230
15°	2337	2312	2322	2314	2310	659
25°	2166	2140	2152	2129	2127	997
35°	1908	1886	1892	1867	1864	1191
45°	1544	1524	1517	1490	1486	1183
55°	1011	995	988	972	968	906
65°	543	539	545	541	541	550
75°	293	293	293	296	296	310
85°	75	79	83	83	83	87
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°	2416.0	2416.0	2416.0	2416.0	2416.0
2.5°	2430.9	2409.8	2416.0	2410.7	2399.3
5°	2428.5	2402.0	2409.7	2401.3	2397.2
7.5°	2409.7	2383.7	2391.4	2383.0	2380.6
10°	2393.1	2368.7	2376.4	2368.0	2363.9
12.5°	2374.8	2348.7	2358.1	2348.0	2344.0
15°	2336.9	2312.5	2322.3	2313.9	2309.8
17.5°	2295.3	2269.2	2279.0	2269.3	2264.1
20°	2262.0	2237.6	2247.4	2232.8	2230.8
22.5°	2225.4	2200.9	2210.8	2191.2	2190.8
25°	2166.3	2139.8	2151.7	2128.8	2126.7
27.5°	2095.9	2071.5	2081.4	2058.0	2055.5
30°	2047.6	2023.2	2033.1	2008.0	2003.9
32.5°	1992.7	1969.9	1978.1	1953.1	1950.7
35°	1908.2	1885.8	1891.6	1866.6	1864.5
37.5°	1812.1	1791.7	1795.0	1767.5	1765.5
40°	1743.8	1723.5	1725.1	1695.9	1693.9
42.5°	1668.9	1648.6	1646.9	1617.7	1615.6
45°	1544.1	1523.7	1517.0	1489.9	1485.8
47.5°	1401.7	1381.4	1368.8	1346.7	1343.9
50°	1298.5	1278.2	1267.3	1248.4	1242.3
52.5°	1187.0	1166.6	1157.4	1140.2	1134.1
55°	1011.3	995.1	988.4	971.7	967.6
57.5°	844.4	833.5	831.5	815.3	813.6
60°	742.9	736.8	736.7	722.1	722.1
62.5°	656.3	651.9	655.1	645.5	643.8
65°	543.1	539.1	545.2	541.0	541.0
67.5°	453.6	453.6	457.4	455.7	455.7
70°	403.7	403.7	405.8	405.8	405.8
72.5°	358.8	357.1	362.5	362.5	360.8
75°	293.4	293.4	293.4	295.5	295.5
77.5°	228.5	228.9	230.6	230.1	228.5
80°	185.2	187.2	187.3	185.2	185.2
82.5°	141.9	144.0	144.0	143.5	141.9
85°	74.9	79.0	83.2	83.2	83.2
87.5°	22.3	30.0	37.1	37.3	35.7
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)