

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: P563048

Luminaire Tested: **SQ4-PC3-125U-100D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563048  
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-100D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

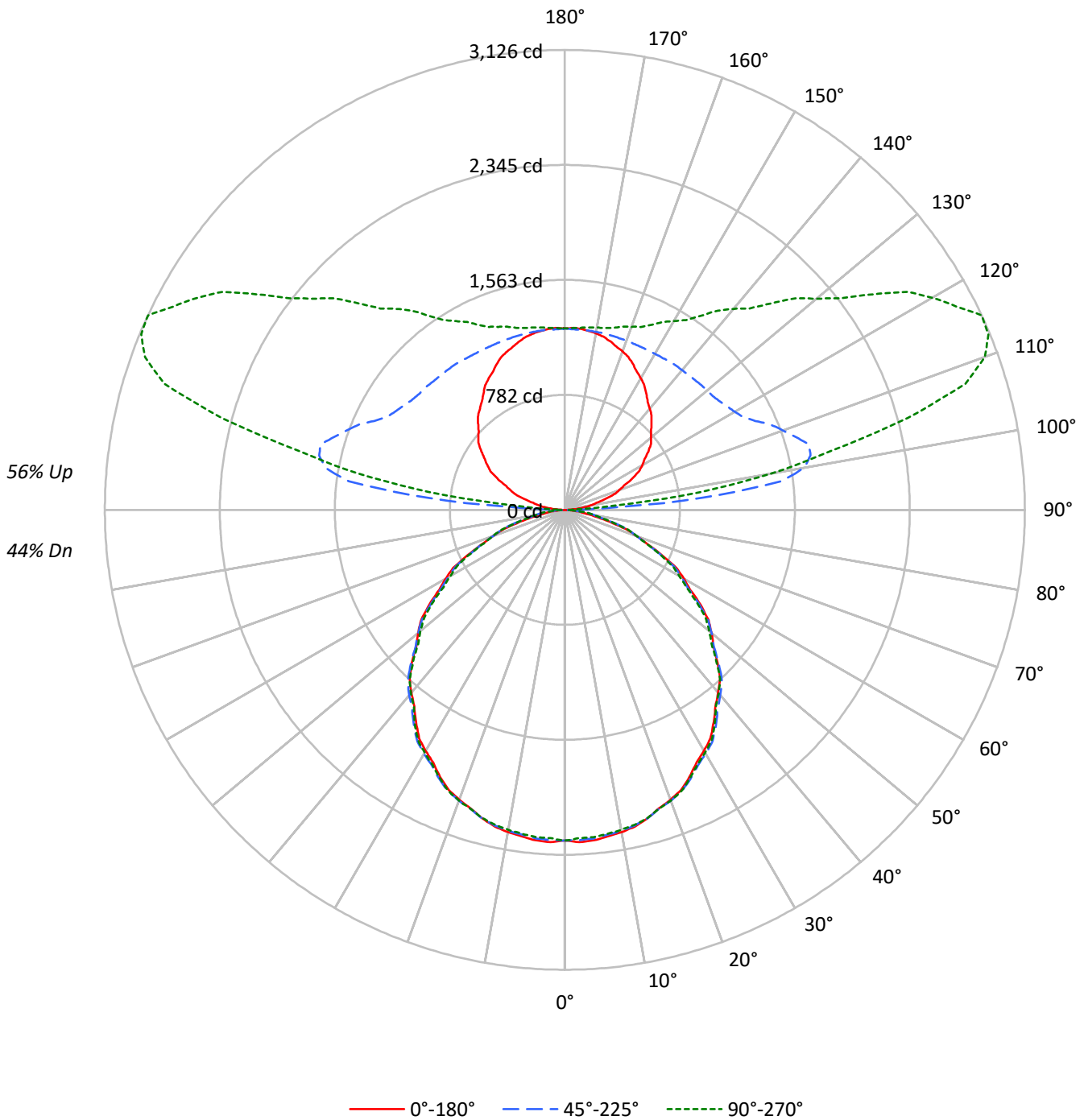
Lumens per Lamp: N/A  
Luminaire Lumens: 14093.0 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 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	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	80	80	80	64	64	64	50	50	50	44
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	37	36	31
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	32	30	26
4	73	62	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	24	25	22	20	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11

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

	0°	45°	90°
0°	10367	10367	10367
5°	10446	10378	10339
10°	10420	10371	10342
15°	10365	10365	10355
20°	10297	10328	10328
25°	10200	10274	10243
30°	10076	10198	10153
35°	9926	10078	10008
40°	9762	9900	9800
45°	9584	9652	9503
50°	9334	9334	9185
55°	9038	8920	8787
60°	8602	8428	8294
65°	7950	7792	7723
70°	6961	7016	6989
75°	5600	6194	6231
80°	3980	5252	5308
85°	2424	4404	4404



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.7	1.5
10°-20°	610.4	4.3
20°-30°	924.3	6.6
30°-40°	1108.1	7.9
40°-50°	1129.9	8.0
50°-60°	986.3	7.0
60°-70°	706.2	5.0
70°-80°	363.7	2.6
80°-90°	94.9	0.7
90°-100°	576.6	4.1
100°-110°	1553.1	11.0
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°	1747.4	12.4
0°-40°	2855.5	20.3
0°-60°	4971.8	35.3
0°-90°	6136.5	43.5
90°-120°	3759.6	26.7
90°-150°	6916.0	49.1
90°-180°	7956.0	56.5
0°-180°	14093.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2247	2247	2247	2247	2247	
5°	2256	2233	2241	2235	2233	214
15°	2170	2152	2170	2170	2168	612
25°	2004	1990	2018	2012	2012	922
35°	1763	1758	1790	1777	1777	1102
45°	1469	1465	1480	1461	1457	1131
55°	1124	1110	1109	1092	1092	1002
65°	728	712	714	708	708	720
75°	314	328	348	350	350	340
85°	46	70	83	85	83	62
90°	3	9	19	20	20	8
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°	2247.4	2247.4	2247.4	2247.4	2247.4
2.5°	2260.7	2241.2	2247.4	2242.2	2234.1
5°	2255.7	2233.4	2241.2	2234.9	2232.8
7.5°	2239.5	2217.1	2227.4	2223.2	2221.2
10°	2224.5	2202.1	2214.1	2209.9	2207.9
12.5°	2204.5	2183.8	2197.5	2193.3	2192.9
15°	2170.4	2152.1	2170.4	2170.4	2168.3
17.5°	2127.6	2110.9	2130.5	2131.7	2130.5
20°	2097.6	2079.3	2103.8	2101.8	2103.8
22.5°	2061.0	2045.9	2072.2	2066.8	2068.9
25°	2003.9	1989.7	2018.5	2012.3	2012.3
27.5°	1936.5	1926.3	1957.7	1951.1	1951.1
30°	1891.6	1881.4	1914.5	1906.1	1906.1
32.5°	1841.6	1834.7	1866.2	1856.2	1856.2
35°	1762.6	1758.5	1789.6	1777.1	1777.1
37.5°	1681.0	1677.3	1705.5	1690.4	1685.6
40°	1621.1	1619.0	1643.9	1627.3	1627.3
42.5°	1561.1	1559.1	1580.7	1560.7	1560.7
45°	1469.1	1465.1	1479.5	1460.7	1456.7
47.5°	1368.8	1364.8	1373.8	1353.4	1351.4
50°	1300.6	1296.5	1300.6	1281.8	1279.8
52.5°	1230.7	1223.3	1224.0	1205.3	1204.9
55°	1123.7	1109.5	1109.1	1092.5	1092.5
57.5°	1010.5	991.8	993.4	979.2	977.2
60°	932.3	911.9	913.5	901.0	899.0
62.5°	855.7	832.1	837.0	822.8	822.4
65°	728.3	712.1	713.8	707.5	707.5
67.5°	606.0	590.9	601.8	596.8	596.4
70°	516.1	505.9	520.2	520.2	518.2
72.5°	432.8	432.4	450.3	450.3	451.6
75°	314.2	328.5	347.5	349.6	349.6
77.5°	209.8	235.0	256.0	256.8	256.4
80°	149.8	178.3	197.7	201.8	199.8
82.5°	101.5	131.7	147.7	151.9	149.8
85°	45.8	70.2	83.2	85.3	83.2
87.5°	13.9	29.8	37.1	37.3	34.0
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)