

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: P563704

Luminaire Tested: **SQ4-PP3-125U-075D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563704  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-125U-075D-940-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

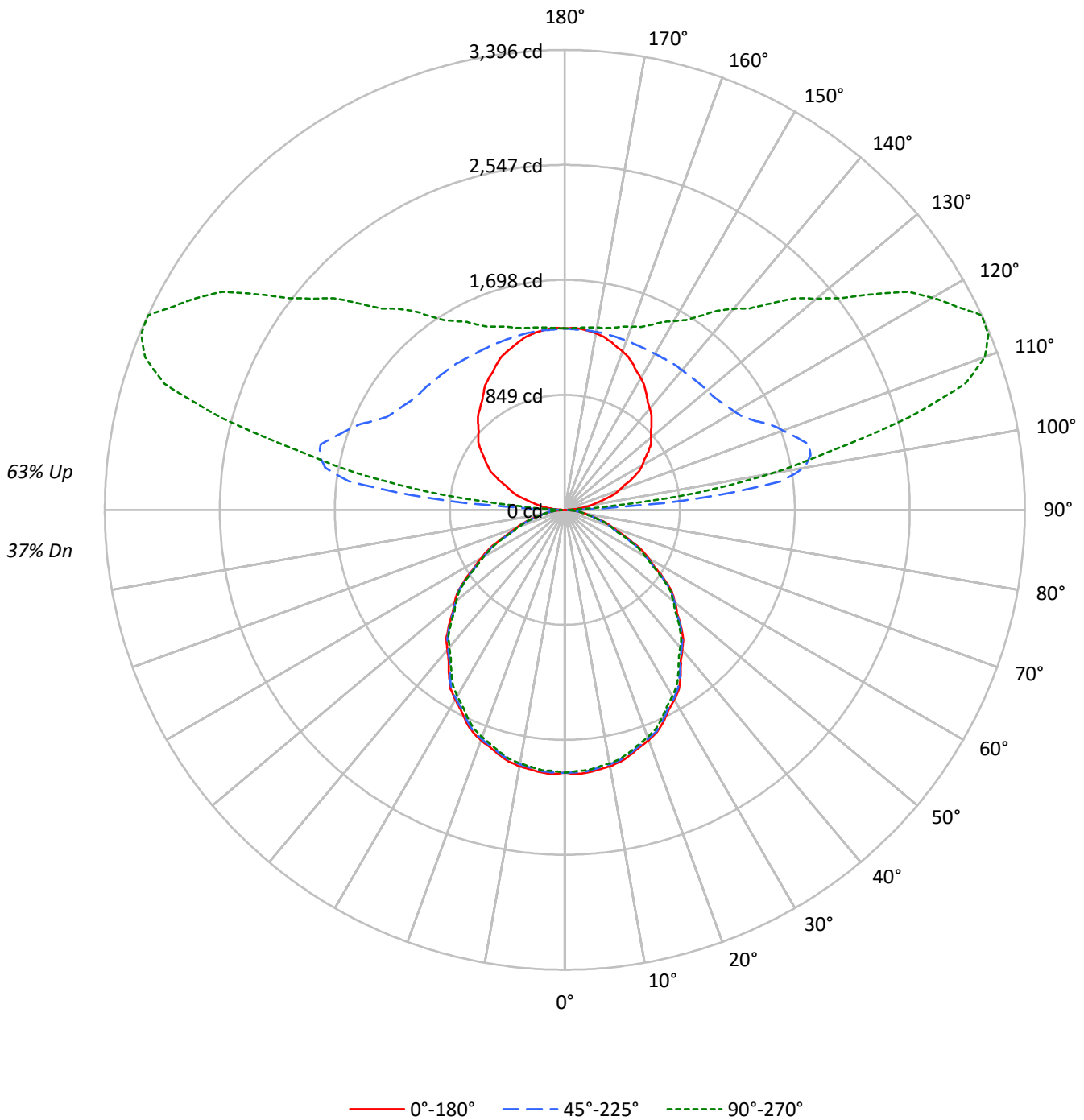
Lumens per Lamp: N/A  
Luminaire Lumens: 13614.2 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 116  
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	79	73	68	78	72	67	63	59	55	52	46	44	41	34	33	32	26
3	79	70	63	57	71	64	57	53	52	47	44	41	38	35	31	29	27	22
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	33	27	47	37	30	26	30	25	22	24	21	18	19	16	14	12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	12	10

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

	0°	45°	90°
0°	8953	8953	8953
5°	9019	8964	8932
10°	9004	8940	8900
15°	8944	8895	8847
20°	8885	8835	8768
25°	8779	8719	8632
30°	8617	8571	8463
35°	8392	8334	8229
40°	8123	8072	7980
45°	7901	7846	7768
50°	7617	7569	7495
55°	7223	7127	7073
60°	6576	6387	6356
65°	5793	5552	5533
70°	5001	4795	4795
75°	4304	4244	4183
80°	3796	3841	3751
85°	2969	3239	3239



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.5	1.3
10°-20°	524.0	3.8
20°-30°	784.9	5.8
30°-40°	920.7	6.8
40°-50°	923.5	6.8
50°-60°	787.9	5.8
60°-70°	513.8	3.8
70°-80°	257.8	1.9
80°-90°	74.5	0.5
90°-100°	626.4	4.6
100°-110°	1687.3	12.4
110°-120°	1770.7	13.0
120°-130°	1436.9	10.6
130°-140°	1126.9	8.3
140°-150°	865.2	6.4
150°-160°	622.1	4.6
160°-170°	380.0	2.8
170°-180°	128.2	0.9
0°-30°	1492.5	11.0
0°-40°	2413.1	17.7
0°-60°	4124.5	30.3
0°-90°	4970.6	36.5
90°-120°	4084.4	30.0
90°-150°	7513.4	55.2
90°-180°	8644.0	63.5
0°-180°	13614.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1941	1941	1941	1941	1941	
5°	1948	1929	1936	1929	1929	185
15°	1873	1854	1863	1856	1852	528
25°	1725	1705	1713	1698	1696	793
35°	1490	1475	1480	1463	1461	931
45°	1211	1203	1203	1191	1191	933
55°	898	895	886	881	879	798
65°	531	521	509	505	507	530
75°	242	242	238	236	235	262
85°	56	61	61	61	61	66
90°	3	10	20	22	22	9
95°	96	341	1027	525	363	100
105°	312	486	1866	2792	2620	328
115°	551	674	1554	3002	3396	542
125°	752	864	1395	2358	2775	672
135°	906	1011	1356	1902	2154	699
145°	1047	1129	1339	1626	1747	657
155°	1189	1232	1327	1459	1506	547
165°	1290	1304	1332	1385	1392	364
175°	1341	1339	1334	1352	1349	127
180°	1339	1339	1339	1339	1339	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1940.8	1940.8	1940.8	1940.8	1940.8
2.5°	1953.1	1937.1	1940.8	1937.9	1930.0
5°	1947.6	1929.4	1935.7	1928.9	1928.9
7.5°	1934.4	1914.4	1920.8	1914.0	1913.6
10°	1922.1	1902.2	1908.5	1901.7	1900.0
12.5°	1904.4	1884.5	1892.2	1884.0	1883.7
15°	1872.8	1854.5	1862.6	1855.7	1852.4
17.5°	1837.1	1817.1	1826.9	1817.3	1816.0
20°	1809.9	1789.9	1799.7	1786.1	1786.1
22.5°	1777.2	1757.2	1768.4	1750.7	1750.7
25°	1724.8	1704.9	1712.9	1697.6	1695.9
27.5°	1662.6	1642.9	1651.3	1634.0	1633.6
30°	1617.7	1599.4	1609.1	1590.4	1588.7
32.5°	1568.7	1551.7	1558.8	1540.0	1538.4
35°	1490.1	1475.1	1479.9	1462.8	1461.2
37.5°	1407.4	1392.1	1397.5	1382.9	1382.2
40°	1348.9	1338.9	1340.4	1328.4	1325.1
42.5°	1294.5	1283.2	1284.6	1272.7	1272.0
45°	1211.1	1202.8	1202.6	1190.7	1190.7
47.5°	1122.7	1116.3	1114.5	1104.6	1104.3
50°	1061.4	1056.4	1054.6	1046.1	1044.4
52.5°	997.5	995.1	989.3	982.2	981.8
55°	898.1	894.8	886.2	881.1	879.4
57.5°	790.3	783.6	774.0	766.5	767.8
60°	712.7	706.1	692.3	688.9	688.9
62.5°	637.9	629.9	616.1	611.4	614.1
65°	530.7	520.7	508.6	505.2	506.9
67.5°	433.4	424.4	411.3	411.3	409.9
70°	370.8	365.8	355.5	355.5	355.5
72.5°	315.0	312.7	305.2	305.1	303.8
75°	241.5	241.5	238.1	236.4	234.7
77.5°	181.0	181.7	180.0	178.2	175.2
80°	142.9	146.2	144.6	142.8	141.2
82.5°	107.5	110.8	110.6	107.5	107.2
85°	56.1	61.1	61.2	61.2	61.2
87.5°	15.7	22.3	25.9	26.2	27.6
90°	3.4	10.1	20.5	22.2	22.2
92.5°	41.6	147.0	290.6	139.9	97.2
95°	95.5	340.7	1026.8	525.1	363.3
97.5°	152.5	390.0	1610.5	1345.4	1014.5
100°	196.2	409.6	1796.1	1879.2	1559.0
102.5°	238.5	437.2	1857.5	2278.9	2016.1
105°	312.1	485.6	1866.0	2791.7	2619.9
107.5°	381.7	536.5	1786.5	3055.2	3099.5
110°	428.1	574.9	1714.2	3137.0	3298.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	477.2	613.3	1644.6	3118.9	3384.7
115°	550.9	674.3	1553.9	3002.4	3396.0
117.5°	618.1	733.9	1483.6	2816.4	3254.7
120°	661.8	773.5	1448.1	2683.0	3133.3
122.5°	700.0	810.4	1422.2	2546.5	2995.5
125°	752.2	863.9	1395.2	2358.2	2775.1
127.5°	802.3	912.4	1378.2	2192.0	2564.3
130°	832.4	942.4	1371.3	2096.9	2423.7
132.5°	862.4	971.1	1364.5	2013.0	2313.2
135°	905.7	1010.8	1356.0	1902.4	2154.2
137.5°	947.0	1047.7	1351.6	1808.6	2015.4
140°	975.6	1072.4	1347.5	1750.8	1937.6
142.5°	1005.7	1095.7	1344.7	1697.0	1854.4
145°	1047.3	1129.0	1338.9	1626.5	1746.6
147.5°	1092.3	1163.3	1333.1	1567.3	1661.6
150°	1122.3	1184.0	1330.4	1530.0	1608.4
152.5°	1149.6	1203.3	1329.0	1499.7	1563.4
155°	1188.8	1232.2	1327.0	1459.4	1506.1
157.5°	1223.3	1257.0	1327.3	1431.1	1462.4
160°	1245.1	1273.5	1328.7	1414.5	1437.9
162.5°	1264.2	1287.2	1330.1	1400.7	1417.4
165°	1289.5	1304.5	1332.1	1385.1	1391.8
167.5°	1309.9	1318.6	1333.8	1373.1	1375.8
170°	1323.6	1326.9	1333.8	1366.2	1366.2
172.5°	1331.8	1332.4	1335.2	1359.4	1359.4
175°	1340.6	1339.0	1333.8	1352.5	1349.2
177.5°	1344.4	1341.7	1334.8	1345.7	1343.0
180°	1338.9	1338.9	1338.9	1338.9	1338.9

(END OF REPORT)