

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: P563707

Luminaire Tested: **SQ4-PP3-125U-100D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563707  
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-100D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

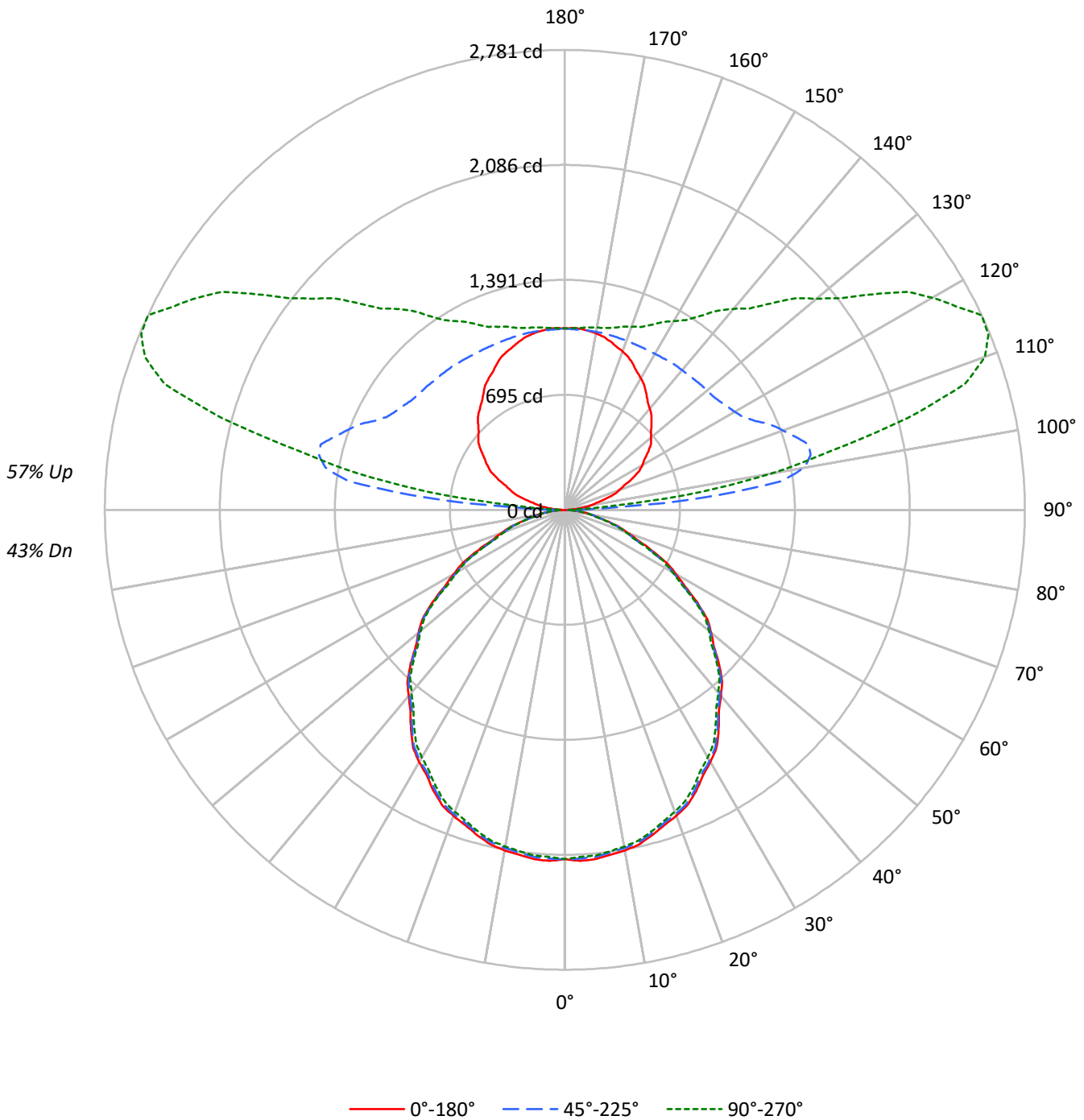
Lumens per Lamp: N/A  
Luminaire Lumens: 12485.7 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 102.8  
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	80	80	80	64	64	64	50	50	50	43
1	96	92	88	85	88	85	81	78	70	68	66	57	55	54	44	43	43	37
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	38	36	31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	26
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	27	23
5	67	56	48	42	61	52	45	39	43	38	34	35	32	28	28	25	23	20
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	26	23	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	21	18	16	14
9	49	37	30	25	45	35	28	24	29	24	21	24	20	18	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°	12989	12989	12989
5°	13085	13004	12959
10°	13062	12970	12912
15°	12976	12905	12834
20°	12890	12817	12720
25°	12737	12649	12523
30°	12501	12435	12278
35°	12174	12091	11937
40°	11785	11710	11577
45°	11463	11382	11270
50°	11051	10980	10874
55°	10479	10341	10261
60°	9540	9267	9221
65°	8405	8054	8027
70°	7256	6956	6956
75°	6245	6157	6070
80°	5508	5572	5441
85°	4312	4700	4700



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.7	1.6
10°-20°	570.2	4.6
20°-30°	854.1	6.8
30°-40°	1001.8	8.0
40°-50°	1004.9	8.0
50°-60°	857.2	6.9
60°-70°	559.1	4.5
70°-80°	280.5	2.2
80°-90°	80.2	0.6
90°-100°	512.9	4.1
100°-110°	1381.7	11.1
110°-120°	1450.0	11.6
120°-130°	1176.7	9.4
130°-140°	922.8	7.4
140°-150°	708.5	5.7
150°-160°	509.4	4.1
160°-170°	311.2	2.5
170°-180°	105.0	0.8
0°-30°	1623.9	13.0
0°-40°	2625.7	21.0
0°-60°	4487.8	35.9
0°-90°	5407.5	43.3
90°-120°	3344.6	26.8
90°-150°	6152.6	49.3
90°-180°	7078.0	56.7
0°-180°	12485.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2112	2112	2112	2112	2112	
5°	2119	2099	2106	2099	2099	201
15°	2038	2018	2027	2019	2016	575
25°	1877	1855	1864	1847	1845	863
35°	1621	1605	1610	1592	1590	1013
45°	1318	1309	1308	1296	1296	1015
55°	977	974	964	959	957	868
65°	578	567	553	550	552	576
75°	263	263	259	257	255	285
85°	61	66	67	67	67	72
90°	3	8	17	18	18	8
95°	78	279	841	430	298	82
105°	256	398	1528	2286	2145	269
115°	451	552	1272	2459	2781	444
125°	616	708	1142	1931	2272	550
135°	742	828	1110	1558	1764	572
145°	858	924	1096	1332	1430	538
155°	974	1009	1087	1195	1233	448
165°	1056	1068	1091	1134	1140	298
175°	1098	1096	1092	1108	1105	104
180°	1096	1096	1096	1096	1096	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2111.8	2111.8	2111.8	2111.8	2111.8
2.5°	2125.1	2107.7	2111.8	2108.6	2099.9
5°	2119.2	2099.3	2106.2	2098.8	2098.8
7.5°	2104.7	2083.0	2089.9	2082.5	2082.2
10°	2091.4	2069.7	2076.6	2069.2	2067.4
12.5°	2072.2	2050.4	2058.8	2049.9	2049.6
15°	2037.7	2017.8	2026.6	2019.1	2015.5
17.5°	1998.9	1977.2	1987.8	1977.4	1975.9
20°	1969.3	1947.5	1958.2	1943.3	1943.3
22.5°	1933.7	1912.0	1924.1	1904.9	1904.9
25°	1876.7	1855.0	1863.8	1847.1	1845.3
27.5°	1809.0	1787.6	1796.8	1777.9	1777.5
30°	1760.1	1740.2	1750.9	1730.5	1728.7
32.5°	1706.8	1688.4	1696.1	1675.7	1673.9
35°	1621.3	1605.0	1610.2	1591.7	1589.8
37.5°	1531.4	1514.7	1520.6	1504.7	1504.0
40°	1467.7	1456.8	1458.4	1445.4	1441.8
42.5°	1408.5	1396.2	1397.7	1384.8	1384.0
45°	1317.8	1308.7	1308.5	1295.6	1295.6
47.5°	1221.5	1214.7	1212.6	1201.9	1201.5
50°	1154.9	1149.5	1147.5	1138.2	1136.4
52.5°	1085.3	1082.8	1076.4	1068.6	1068.3
55°	977.2	973.6	964.3	958.7	956.9
57.5°	859.9	852.6	842.1	834.0	835.5
60°	775.5	768.2	753.3	749.6	749.6
62.5°	694.1	685.4	670.4	665.2	668.1
65°	577.5	566.6	553.4	549.7	551.5
67.5°	471.6	461.8	447.5	447.5	446.0
70°	403.5	398.0	386.8	386.8	386.8
72.5°	342.8	340.2	332.0	332.0	330.6
75°	262.8	262.8	259.1	257.2	255.4
77.5°	196.9	197.6	195.8	193.9	190.6
80°	155.5	159.1	157.3	155.4	153.6
82.5°	117.0	120.6	120.3	117.0	116.6
85°	61.1	66.5	66.6	66.6	66.6
87.5°	16.8	23.7	27.0	27.4	28.8
90°	2.8	8.3	16.8	18.2	18.2
92.5°	34.1	120.4	238.0	114.6	79.6
95°	78.2	279.0	840.8	430.0	297.5
97.5°	124.9	319.3	1318.8	1101.7	830.8
100°	160.6	335.4	1470.8	1538.8	1276.6
102.5°	195.3	358.1	1521.1	1866.2	1651.0
105°	255.6	397.6	1528.0	2286.1	2145.4
107.5°	312.6	439.3	1463.0	2501.9	2538.2
110°	350.6	470.8	1403.7	2568.8	2701.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	390.8	502.3	1346.7	2554.0	2771.7
115°	451.2	552.2	1272.4	2458.6	2780.9
117.5°	506.2	601.0	1214.9	2306.4	2665.3
120°	541.9	633.4	1185.8	2197.1	2565.8
122.5°	573.2	663.6	1164.6	2085.3	2453.0
125°	616.0	707.5	1142.5	1931.1	2272.5
127.5°	657.0	747.2	1128.6	1795.1	2099.9
130°	681.6	771.8	1123.0	1717.1	1984.8
132.5°	706.2	795.2	1117.4	1648.4	1894.3
135°	741.7	827.7	1110.4	1557.9	1764.1
137.5°	775.5	858.0	1106.8	1481.1	1650.4
140°	798.9	878.2	1103.4	1433.8	1586.7
142.5°	823.5	897.3	1101.2	1389.6	1518.5
145°	857.6	924.5	1096.5	1331.9	1430.3
147.5°	894.5	952.7	1091.7	1283.4	1360.7
150°	919.1	969.6	1089.5	1252.9	1317.1
152.5°	941.4	985.4	1088.3	1228.1	1280.3
155°	973.5	1009.0	1086.7	1195.1	1233.3
157.5°	1001.8	1029.3	1087.0	1171.9	1197.6
160°	1019.6	1042.8	1088.1	1158.3	1177.5
162.5°	1035.3	1054.1	1089.2	1147.0	1160.7
165°	1055.9	1068.2	1090.9	1134.3	1139.8
167.5°	1072.7	1079.8	1092.3	1124.4	1126.6
170°	1083.9	1086.6	1092.3	1118.8	1118.8
172.5°	1090.6	1091.1	1093.4	1113.2	1113.2
175°	1097.8	1096.5	1092.3	1107.6	1104.8
177.5°	1100.9	1098.7	1093.1	1102.0	1099.8
180°	1096.5	1096.5	1096.5	1096.5	1096.5

(END OF REPORT)