

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: P563588

Luminaire Tested: **SQ4-PP3-100U-075D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563588  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PP3-100U-075D-830-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

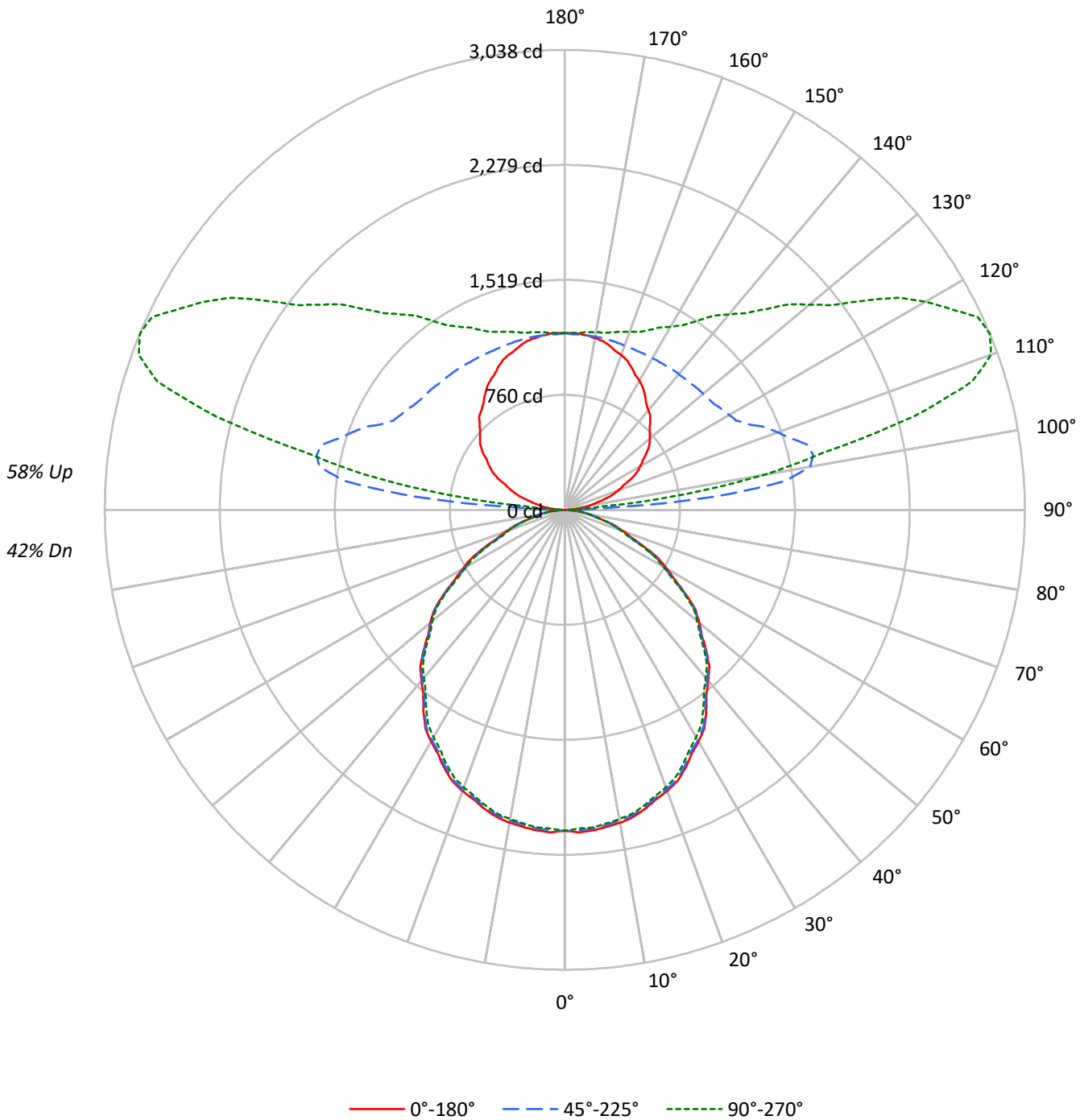
Lumens per Lamp: N/A  
Luminaire Lumens: 13008.2 lumens  
Efficiency: N/A  
Efficacy: 125.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 103.9  
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	80	74	69	80	74	68	64	61	57	54	49	46	44	38	36	35	30
3	80	71	64	58	73	65	59	54	54	49	45	43	40	38	34	32	30	26
4	73	63	55	49	67	57	51	46	48	43	39	39	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	25	23	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	17
7	57	45	37	32	52	42	35	30	35	29	26	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	32	25	21	27	22	18	22	18	16	18	15	13	11

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

	0°	45°	90°
0°	9776	9776	9776
5°	9848	9787	9753
10°	9831	9761	9718
15°	9766	9713	9660
20°	9701	9646	9573
25°	9586	9520	9425
30°	9409	9359	9240
35°	9163	9099	8985
40°	8869	8813	8713
45°	8627	8567	8482
50°	8317	8264	8184
55°	7887	7782	7723
60°	7180	6974	6940
65°	6326	6061	6042
70°	5461	5236	5236
75°	4700	4634	4568
80°	4144	4195	4096
85°	3245	3541	3541



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.4	1.5
10°-20°	572.2	4.4
20°-30°	857.0	6.6
30°-40°	1005.2	7.7
40°-50°	1008.4	7.8
50°-60°	860.2	6.6
60°-70°	561.0	4.3
70°-80°	281.5	2.2
80°-90°	80.3	0.6
90°-100°	546.5	4.2
100°-110°	1508.6	11.6
110°-120°	1555.9	12.0
120°-130°	1250.3	9.6
130°-140°	982.6	7.6
140°-150°	753.6	5.8
150°-160°	541.6	4.2
160°-170°	331.2	2.5
170°-180°	111.7	0.9
0°-30°	1629.6	12.5
0°-40°	2634.8	20.3
0°-60°	4503.4	34.6
0°-90°	5426.3	41.7
90°-120°	3611.0	27.8
90°-150°	6597.5	50.7
90°-180°	7582.0	58.3
0°-180°	13008.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2119	2119	2119	2119	2119	
5°	2127	2107	2114	2106	2106	202
15°	2045	2025	2034	2026	2023	577
25°	1883	1862	1870	1854	1852	866
35°	1627	1611	1616	1597	1595	1016
45°	1322	1313	1313	1300	1300	1018
55°	981	977	968	962	960	871
65°	580	569	555	552	554	578
75°	264	264	260	258	256	286
85°	61	67	67	67	67	72
90°	4	7	15	17	19	8
95°	80	296	991	408	265	86
105°	269	415	1660	2534	2386	286
115°	482	582	1337	2646	3010	473
125°	661	752	1212	2051	2407	588
135°	795	881	1178	1661	1873	615
145°	922	986	1163	1414	1522	577
155°	1040	1075	1154	1269	1309	479
165°	1126	1140	1159	1204	1214	317
175°	1167	1169	1161	1178	1174	111
180°	1167	1167	1167	1167	1167	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2119.1	2119.1	2119.1	2119.1	2119.1
2.5°	2132.5	2115.1	2119.1	2116.0	2107.2
5°	2126.6	2106.6	2113.6	2106.1	2106.1
7.5°	2112.1	2090.3	2097.2	2089.8	2089.4
10°	2098.7	2076.9	2083.8	2076.4	2074.6
12.5°	2079.4	2057.6	2066.0	2057.1	2056.7
15°	2044.8	2024.9	2033.7	2026.2	2022.6
17.5°	2005.8	1984.0	1994.7	1984.3	1982.8
20°	1976.1	1954.3	1965.0	1950.1	1950.1
22.5°	1940.5	1918.7	1930.8	1911.5	1911.5
25°	1883.3	1861.5	1870.3	1853.5	1851.7
27.5°	1815.3	1793.9	1803.0	1784.1	1783.7
30°	1766.3	1746.3	1757.0	1736.5	1734.7
32.5°	1712.8	1694.2	1702.0	1681.5	1679.7
35°	1627.0	1610.6	1615.8	1597.2	1595.4
37.5°	1536.7	1520.0	1525.9	1509.9	1509.2
40°	1472.8	1461.9	1463.5	1450.4	1446.8
42.5°	1413.4	1401.0	1402.6	1389.6	1388.9
45°	1322.4	1313.3	1313.1	1300.1	1300.1
47.5°	1225.8	1218.9	1216.9	1206.1	1205.7
50°	1158.9	1153.5	1151.5	1142.2	1140.4
52.5°	1089.1	1086.6	1080.2	1072.4	1072.0
55°	980.6	977.0	967.6	962.0	960.2
57.5°	862.9	855.6	845.1	836.9	838.4
60°	778.2	770.9	755.9	752.2	752.2
62.5°	696.5	687.8	672.7	667.6	670.5
65°	579.5	568.6	555.3	551.6	553.5
67.5°	473.2	463.4	449.1	449.1	447.6
70°	404.9	399.4	388.2	388.2	388.2
72.5°	344.0	341.4	333.2	333.2	331.7
75°	263.7	263.7	260.0	258.1	256.3
77.5°	197.6	198.3	196.5	194.6	191.3
80°	156.0	159.6	157.9	156.0	154.2
82.5°	117.4	121.0	120.7	117.4	117.0
85°	61.3	66.7	66.9	66.9	66.9
87.5°	17.1	23.6	26.8	27.2	29.0
90°	3.7	7.4	14.9	16.8	18.7
92.5°	33.6	139.5	249.4	91.0	70.9
95°	80.3	295.7	991.4	407.5	265.1
97.5°	132.9	331.2	1468.6	1130.7	818.9
100°	171.8	352.5	1644.9	1656.5	1346.1
102.5°	209.1	376.7	1679.2	2046.7	1752.4
105°	268.9	414.9	1659.8	2534.0	2386.1
107.5°	332.3	462.3	1567.2	2768.9	2823.0
110°	377.1	494.0	1495.5	2819.5	2994.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	417.5	529.9	1428.3	2779.6	3038.1
115°	481.7	582.1	1336.8	2646.4	3009.7
117.5°	537.7	637.8	1276.7	2459.0	2872.3
120°	575.1	673.6	1252.8	2332.1	2748.3
122.5°	610.9	705.1	1233.4	2213.6	2607.9
125°	660.9	752.2	1211.7	2050.6	2406.6
127.5°	703.5	794.8	1199.0	1912.9	2219.9
130°	731.9	823.2	1193.0	1828.6	2107.9
132.5°	758.8	845.7	1187.1	1757.8	2010.8
135°	795.4	881.2	1178.1	1660.9	1872.7
137.5°	836.4	914.6	1173.6	1579.5	1760.3
140°	858.8	935.5	1170.6	1525.3	1684.1
142.5°	884.2	955.1	1167.7	1477.0	1616.9
145°	922.3	986.2	1163.2	1413.9	1521.6
147.5°	958.9	1014.8	1159.1	1360.7	1444.3
150°	985.8	1031.4	1157.6	1329.0	1396.6
152.5°	1006.7	1049.4	1156.1	1301.9	1357.7
155°	1039.9	1074.6	1153.8	1268.6	1308.8
157.5°	1070.6	1097.2	1154.2	1244.5	1271.8
160°	1088.5	1112.2	1155.7	1230.8	1250.9
162.5°	1103.4	1124.2	1157.2	1218.8	1234.5
165°	1125.8	1140.4	1159.4	1204.5	1213.6
167.5°	1143.0	1151.8	1161.3	1195.7	1198.6
170°	1152.0	1159.3	1161.3	1191.2	1191.2
172.5°	1159.4	1163.8	1161.3	1185.2	1183.7
175°	1166.9	1168.7	1161.3	1178.0	1174.4
177.5°	1169.9	1168.4	1160.9	1171.3	1168.4
180°	1166.9	1166.9	1166.9	1166.9	1166.9

(END OF REPORT)