

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: P563612

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563612
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-100D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

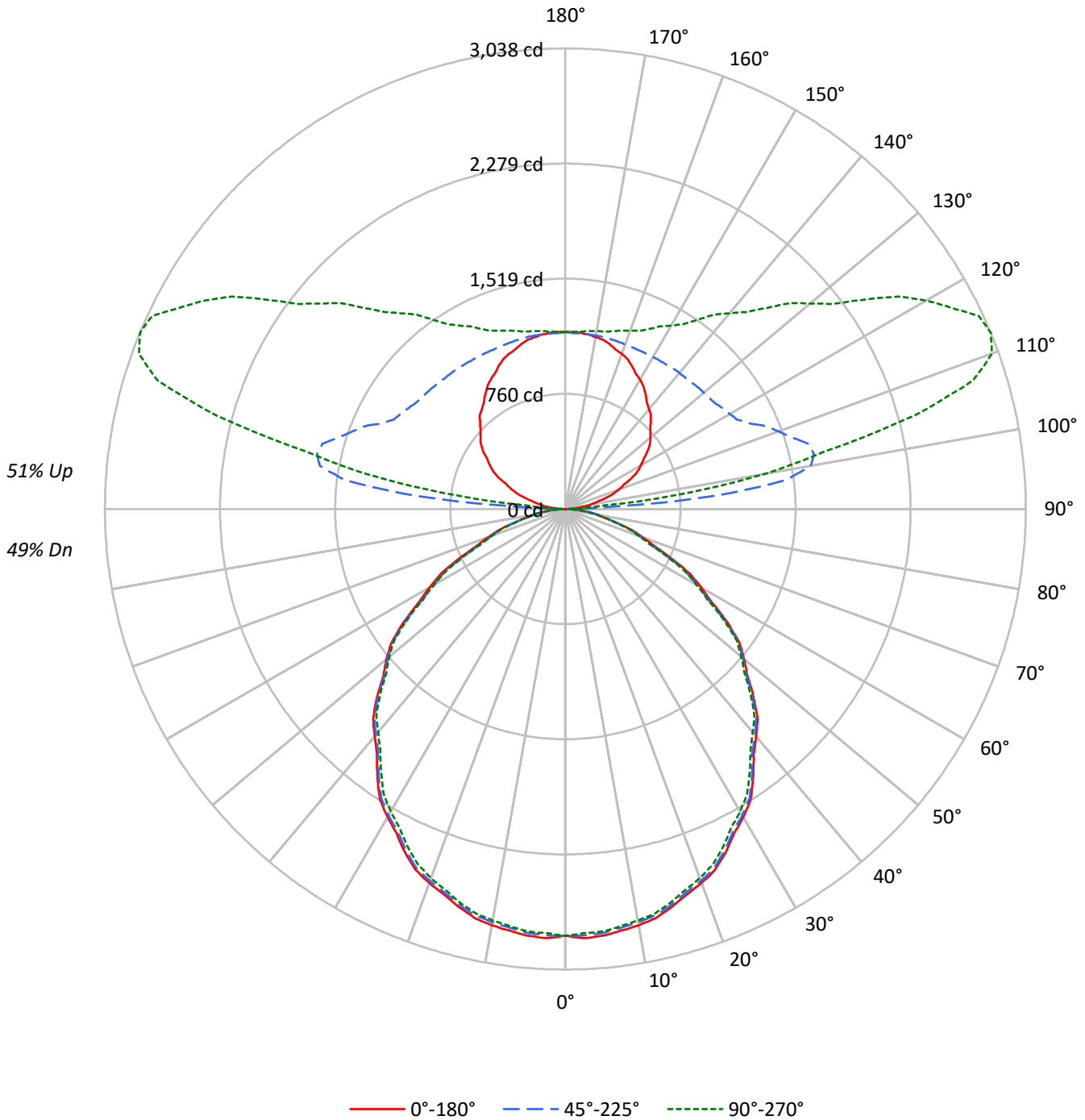
Lumens per Lamp: N/A
Luminaire Lumens: 14791.0 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 121.2
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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49				
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41				
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	40	35				
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	38	36	34	30				
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26				
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22				
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20				
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	22	20	17				
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16				
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14				
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12989	12989	12989
5°	13085	13004	12959
10°	13062	12970	12912
15°	12976	12905	12835
20°	12890	12817	12720
25°	12737	12649	12523
30°	12501	12435	12278
35°	12174	12090	11938
40°	11784	11710	11577
45°	11463	11382	11269
50°	11051	10980	10874
55°	10480	10340	10261
60°	9540	9267	9221
65°	8404	8055	8027
70°	7256	6957	6957
75°	6245	6158	6069
80°	5507	5574	5441
85°	4308	4700	4700



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.3	1.8
10°-20°	760.2	5.1
20°-30°	1138.7	7.7
30°-40°	1335.7	9.0
40°-50°	1339.8	9.1
50°-60°	1143.0	7.7
60°-70°	745.4	5.0
70°-80°	374.0	2.5
80°-90°	105.9	0.7
90°-100°	546.5	3.7
100°-110°	1508.6	10.2
110°-120°	1555.9	10.5
120°-130°	1250.3	8.5
130°-140°	982.6	6.6
140°-150°	753.6	5.1
150°-160°	541.6	3.7
160°-170°	331.2	2.2
170°-180°	111.7	0.8
0°-30°	2165.2	14.6
0°-40°	3500.9	23.7
0°-60°	5983.7	40.5
0°-90°	7209.0	48.7
90°-120°	3611.0	24.4
90°-150°	6597.5	44.6
90°-180°	7582.0	51.3
0°-180°	14791.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2816	2816	2816	2816	2816	
5°	2826	2799	2808	2798	2798	268
15°	2717	2690	2702	2692	2687	767
25°	2502	2473	2485	2463	2460	1151
35°	2162	2140	2147	2122	2120	1350
45°	1757	1745	1745	1727	1727	1353
55°	1303	1298	1286	1278	1276	1158
65°	770	756	738	733	735	768
75°	350	350	346	343	340	380
85°	81	89	89	89	89	96
90°	4	7	15	17	19	9
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°	2815.7	2815.7	2815.7	2815.7	2815.7
2.5°	2833.5	2810.3	2815.7	2811.5	2799.9
5°	2825.6	2799.0	2808.3	2798.4	2798.4
7.5°	2806.3	2777.4	2786.6	2776.7	2776.2
10°	2788.5	2759.6	2768.8	2758.9	2756.5
12.5°	2762.9	2733.9	2745.1	2733.3	2732.8
15°	2717.0	2690.4	2702.2	2692.2	2687.4
17.5°	2665.2	2636.2	2650.4	2636.5	2634.6
20°	2625.7	2596.7	2610.9	2591.1	2591.1
22.5°	2578.3	2549.3	2565.5	2539.8	2539.8
25°	2502.3	2473.3	2485.0	2462.8	2460.3
27.5°	2412.0	2383.5	2395.7	2370.5	2370.0
30°	2346.8	2320.3	2334.5	2307.3	2304.9
32.5°	2275.8	2251.1	2261.4	2234.2	2231.8
35°	2161.7	2140.0	2146.9	2122.2	2119.8
37.5°	2041.8	2019.6	2027.5	2006.3	2005.3
40°	1956.9	1942.4	1944.6	1927.2	1922.4
42.5°	1878.0	1861.5	1863.6	1846.3	1845.4
45°	1757.0	1745.0	1744.7	1727.4	1727.4
47.5°	1628.7	1619.5	1616.9	1602.5	1602.1
50°	1539.9	1532.6	1530.0	1517.6	1515.2
52.5°	1447.1	1443.7	1435.2	1424.9	1424.4
55°	1303.0	1298.1	1285.7	1278.2	1275.8
57.5°	1146.5	1136.9	1122.8	1112.0	1113.9
60°	1034.0	1024.3	1004.4	999.4	999.4
62.5°	925.4	913.8	893.8	887.0	890.9
65°	769.9	755.5	737.9	733.0	735.4
67.5°	628.8	615.8	596.7	596.7	594.7
70°	538.0	530.7	515.8	515.8	515.8
72.5°	457.0	453.6	442.7	442.7	440.7
75°	350.4	350.4	345.5	343.0	340.5
77.5°	262.6	263.5	261.1	258.5	254.2
80°	207.3	212.1	209.8	207.2	204.8
82.5°	156.0	160.8	160.4	156.0	155.5
85°	81.4	88.7	88.8	88.8	88.8
87.5°	22.5	30.9	34.6	35.0	37.3
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)