

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: P563804

Luminaire Tested: **SQ4-PP3-150U-100D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563804
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PP3-150U-100D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

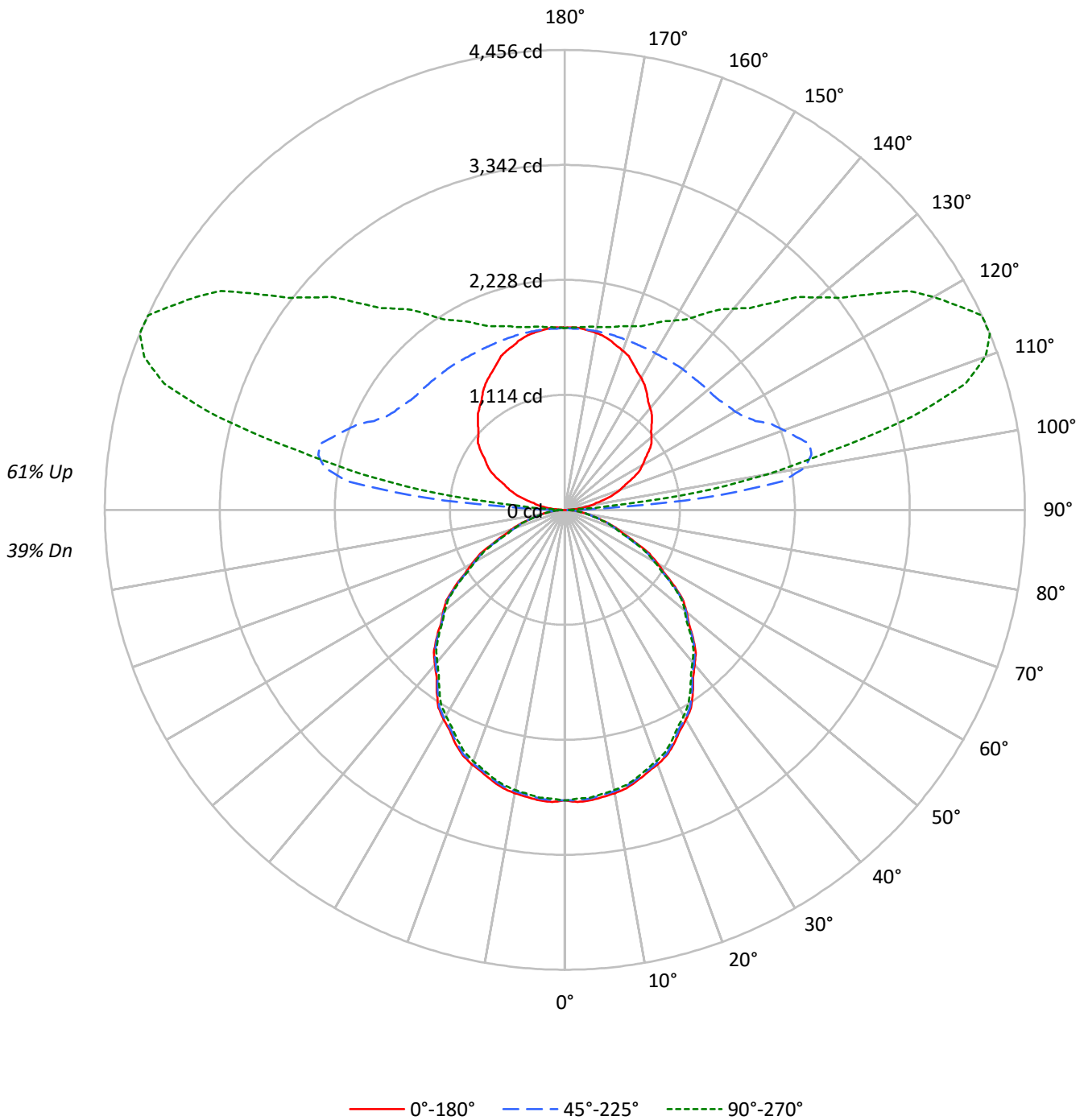
Lumens per Lamp: N/A
Luminaire Lumens: 18582.2 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 148.4
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	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	63	60	56	53	47	45	43	36	34	33	28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	73	62	54	49	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	67	55	47	42	60	51	44	39	42	37	33	33	30	27	26	23	21	18
6	61	50	42	36	56	45	38	33	38	32	28	30	26	24	23	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	27	24	21	21	19	17	14
8	52	40	33	28	48	37	30	26	31	26	22	25	21	18	20	17	15	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	17	18	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10

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	1.4
10°-20°	760.2	4.1
20°-30°	1138.7	6.1
30°-40°	1335.7	7.2
40°-50°	1339.8	7.2
50°-60°	1143.0	6.2
60°-70°	745.4	4.0
70°-80°	374.0	2.0
80°-90°	107.2	0.6
90°-100°	819.7	4.4
100°-110°	2216.3	11.9
110°-120°	2330.1	12.5
120°-130°	1892.7	10.2
130°-140°	1484.7	8.0
140°-150°	1139.5	6.1
150°-160°	819.5	4.4
160°-170°	500.6	2.7
170°-180°	168.8	0.9
0°-30°	2165.2	11.7
0°-40°	3500.9	18.8
0°-60°	5983.7	32.2
0°-90°	7210.3	38.8
90°-120°	5366.2	28.9
90°-150°	9883.0	53.2
90°-180°	11372.0	61.2
0°-180°	18582.2	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	11	25	26	25	12
95°	127	446	1363	706	420	133
105°	412	637	2459	3627	3478	434
115°	725	887	2039	3947	4456	716
125°	993	1138	1838	3101	3643	885
135°	1190	1332	1788	2504	2835	920
145°	1384	1488	1764	2143	2307	866
155°	1563	1624	1749	1923	1986	721
165°	1701	1718	1756	1825	1834	479
175°	1766	1764	1758	1781	1777	168
180°	1764	1764	1764	1764	1764	

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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	31.7	36.5	36.9	38.5
90°	3.8	11.2	24.7	26.5	24.7
92.5°	53.9	196.5	387.7	168.3	121.9
95°	127.2	446.5	1363.2	705.5	419.6
97.5°	204.3	512.1	2124.9	1758.5	1291.4
100°	262.0	538.6	2361.9	2463.2	1991.6
102.5°	315.2	575.4	2445.4	2997.5	2644.8
105°	412.0	636.6	2458.7	3626.8	3478.3
107.5°	501.6	706.6	2351.2	4019.3	4068.7
110°	571.5	757.1	2255.5	4124.7	4334.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	633.8	807.5	2167.5	4103.7	4456.0
115°	725.3	886.8	2039.1	3947.4	4456.0
117.5°	814.9	966.4	1954.4	3708.6	4285.2
120°	869.6	1018.1	1904.3	3537.2	4125.7
122.5°	921.2	1066.7	1873.9	3353.5	3946.4
125°	993.0	1137.8	1837.9	3101.4	3643.4
127.5°	1059.0	1201.2	1816.6	2895.6	3372.3
130°	1095.5	1242.2	1807.5	2768.5	3199.2
132.5°	1133.5	1278.6	1798.4	2653.8	3050.3
135°	1190.4	1331.5	1788.5	2504.2	2834.6
137.5°	1247.8	1381.1	1780.1	2382.8	2652.0
140°	1287.3	1411.6	1777.1	2304.7	2544.1
142.5°	1325.2	1442.2	1771.0	2234.1	2443.9
145°	1384.1	1488.0	1763.8	2143.4	2306.8
147.5°	1437.6	1529.7	1755.5	2061.3	2186.8
150°	1477.1	1558.8	1752.4	2016.7	2116.9
152.5°	1513.6	1584.9	1750.9	1975.3	2057.7
155°	1562.6	1623.8	1748.6	1922.8	1985.9
157.5°	1613.4	1656.1	1749.0	1886.3	1927.8
160°	1642.3	1677.6	1750.5	1863.2	1892.9
162.5°	1665.1	1694.4	1752.0	1844.8	1867.1
165°	1701.2	1717.9	1756.2	1824.8	1834.1
167.5°	1725.8	1737.3	1756.6	1807.6	1812.0
170°	1741.0	1746.6	1758.1	1799.9	1799.9
172.5°	1753.2	1754.3	1758.1	1790.7	1789.2
175°	1765.7	1763.9	1758.1	1780.8	1777.1
177.5°	1769.9	1765.4	1757.7	1772.8	1768.4
180°	1763.8	1763.8	1763.8	1763.8	1763.8

(END OF REPORT)