

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: P563596

Luminaire Tested: **SQ4-PP3-100U-075D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563596
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-840-1D-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

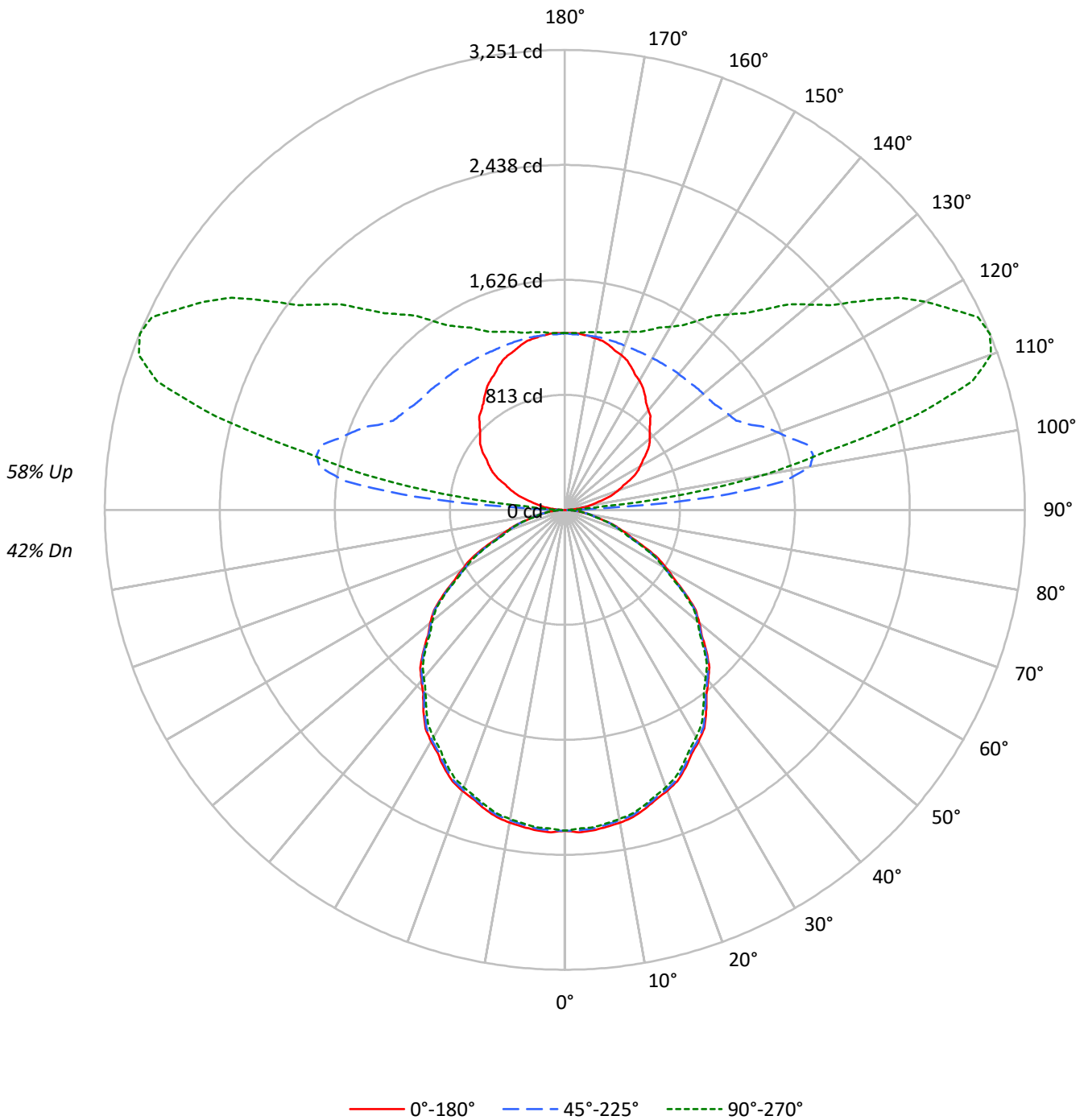
Lumens per Lamp: N/A
Luminaire Lumens: 13920.1 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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°	10461	10461	10461
5°	10538	10473	10437
10°	10520	10445	10399
15°	10450	10394	10336
20°	10381	10322	10244
25°	10258	10187	10086
30°	10068	10015	9888
35°	9805	9738	9614
40°	9491	9431	9323
45°	9232	9167	9076
50°	8901	8843	8758
55°	8440	8328	8264
60°	7683	7463	7426
65°	6769	6486	6465
70°	5844	5603	5603
75°	5030	4959	4889
80°	4434	4487	4383
85°	3472	3784	3784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	1.5
10°-20°	612.3	4.4
20°-30°	917.1	6.6
30°-40°	1075.7	7.7
40°-50°	1079.1	7.8
50°-60°	920.5	6.6
60°-70°	600.4	4.3
70°-80°	301.2	2.2
80°-90°	85.9	0.6
90°-100°	584.8	4.2
100°-110°	1614.4	11.6
110°-120°	1664.9	12.0
120°-130°	1337.9	9.6
130°-140°	1051.5	7.6
140°-150°	806.4	5.8
150°-160°	579.6	4.2
160°-170°	354.4	2.5
170°-180°	119.5	0.9
0°-30°	1743.8	12.5
0°-40°	2819.5	20.3
0°-60°	4819.1	34.6
0°-90°	5806.6	41.7
90°-120°	3864.1	27.8
90°-150°	7060.0	50.7
90°-180°	8113.0	58.3
0°-180°	13920.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2268	2268	2268	2268	2268	
5°	2276	2254	2262	2254	2254	216
15°	2188	2167	2176	2168	2164	617
25°	2015	1992	2001	1983	1982	927
35°	1741	1724	1729	1709	1707	1088
45°	1415	1405	1405	1391	1391	1090
55°	1049	1046	1036	1030	1028	933
65°	620	608	594	590	592	619
75°	282	282	278	276	274	306
85°	66	71	72	72	72	77
90°	4	8	16	18	20	9
95°	86	316	1061	436	284	92
105°	288	444	1776	2712	2553	306
115°	516	623	1430	2832	3221	507
125°	707	805	1297	2194	2575	629
135°	851	943	1261	1777	2004	659
145°	987	1055	1245	1513	1628	618
155°	1113	1150	1235	1358	1401	513
165°	1205	1220	1241	1289	1299	340
175°	1249	1251	1243	1261	1257	119
180°	1249	1249	1249	1249	1249	



TEST NUMBER: P563596

CATALOG NUMBER: SQ4-PP3-100U-075D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2267.7	2267.7	2267.7	2267.7	2267.7
2.5°	2282.0	2263.3	2267.7	2264.3	2255.0
5°	2275.6	2254.3	2261.7	2253.8	2253.8
7.5°	2260.1	2236.8	2244.2	2236.3	2235.9
10°	2245.8	2222.5	2229.9	2221.9	2220.0
12.5°	2225.2	2201.8	2210.8	2201.3	2200.9
15°	2188.2	2166.8	2176.3	2168.2	2164.3
17.5°	2146.5	2123.1	2134.5	2123.4	2121.8
20°	2114.7	2091.3	2102.7	2086.8	2086.8
22.5°	2076.5	2053.2	2066.2	2045.5	2045.5
25°	2015.3	1992.0	2001.4	1983.4	1981.5
27.5°	1942.5	1919.6	1929.4	1909.1	1908.8
30°	1890.1	1868.7	1880.1	1858.2	1856.3
32.5°	1832.8	1813.0	1821.3	1799.4	1797.5
35°	1741.0	1723.5	1729.1	1709.2	1707.2
37.5°	1644.4	1626.5	1632.9	1615.8	1615.0
40°	1576.1	1564.4	1566.1	1552.1	1548.2
42.5°	1512.5	1499.2	1500.9	1487.0	1486.2
45°	1415.1	1405.4	1405.1	1391.2	1391.2
47.5°	1311.7	1304.3	1302.2	1290.6	1290.3
50°	1240.2	1234.3	1232.2	1222.2	1220.3
52.5°	1165.4	1162.7	1155.9	1147.5	1147.2
55°	1049.4	1045.5	1035.5	1029.5	1027.5
57.5°	923.4	915.6	904.3	895.6	897.1
60°	832.7	825.0	808.9	804.9	804.9
62.5°	745.3	736.0	719.9	714.4	717.5
65°	620.1	608.4	594.2	590.3	592.3
67.5°	506.4	495.9	480.6	480.5	479.0
70°	433.3	427.4	415.4	415.4	415.4
72.5°	368.1	365.4	356.5	356.5	355.0
75°	282.2	282.2	278.2	276.2	274.3
77.5°	211.5	212.2	210.3	208.2	204.7
80°	166.9	170.8	168.9	166.9	165.0
82.5°	125.6	129.5	129.2	125.6	125.2
85°	65.6	71.4	71.5	71.5	71.5
87.5°	18.3	25.3	28.6	29.1	31.0
90°	4.0	7.9	16.0	18.0	20.0
92.5°	36.0	149.3	266.9	97.4	75.9
95°	85.9	316.4	1060.9	436.1	283.7
97.5°	142.3	354.4	1571.6	1210.0	876.3
100°	183.8	377.2	1760.2	1772.6	1440.5
102.5°	223.8	403.1	1796.9	2190.2	1875.3
105°	287.7	444.0	1776.2	2711.6	2553.4
107.5°	355.6	494.7	1677.1	2963.1	3020.9
110°	403.6	528.6	1600.3	3017.1	3204.7



TEST NUMBER: P563596

CATALOG NUMBER: SQ4-PP3-100U-075D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	446.7	567.1	1528.4	2974.4	3251.0
115°	515.5	622.9	1430.5	2831.9	3220.7
117.5°	575.4	682.5	1366.2	2631.3	3073.6
120°	615.4	720.9	1340.6	2495.6	2941.0
122.5°	653.7	754.5	1319.8	2368.8	2790.7
125°	707.3	804.9	1296.7	2194.4	2575.3
127.5°	752.8	850.5	1283.1	2047.0	2375.5
130°	783.2	880.9	1276.7	1956.8	2255.7
132.5°	812.0	904.9	1270.3	1881.0	2151.8
135°	851.1	942.9	1260.7	1777.3	2003.9
137.5°	895.1	978.7	1255.9	1690.3	1883.7
140°	919.1	1001.1	1252.7	1632.2	1802.1
142.5°	946.2	1022.0	1249.5	1580.6	1730.2
145°	987.0	1055.4	1244.7	1513.1	1628.3
147.5°	1026.1	1085.9	1240.3	1456.1	1545.6
150°	1054.9	1103.7	1238.7	1422.2	1494.5
152.5°	1077.3	1123.0	1237.1	1393.1	1452.9
155°	1112.9	1150.0	1234.7	1357.6	1400.6
157.5°	1145.6	1174.1	1235.1	1331.7	1361.0
160°	1164.8	1190.2	1236.7	1317.1	1338.6
162.5°	1180.8	1203.1	1238.3	1304.2	1321.0
165°	1204.8	1220.4	1240.7	1288.9	1298.7
167.5°	1223.1	1232.5	1242.7	1279.5	1282.7
170°	1232.7	1240.5	1242.7	1274.7	1274.7
172.5°	1240.7	1245.4	1242.7	1268.3	1266.7
175°	1248.7	1250.7	1242.7	1260.6	1256.7
177.5°	1251.9	1250.3	1242.3	1253.4	1250.3
180°	1248.7	1248.7	1248.7	1248.7	1248.7

(END OF REPORT)