

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: P563592

Luminaire Tested: **SQ4-PP3-100U-075D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563592
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-835-1D-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

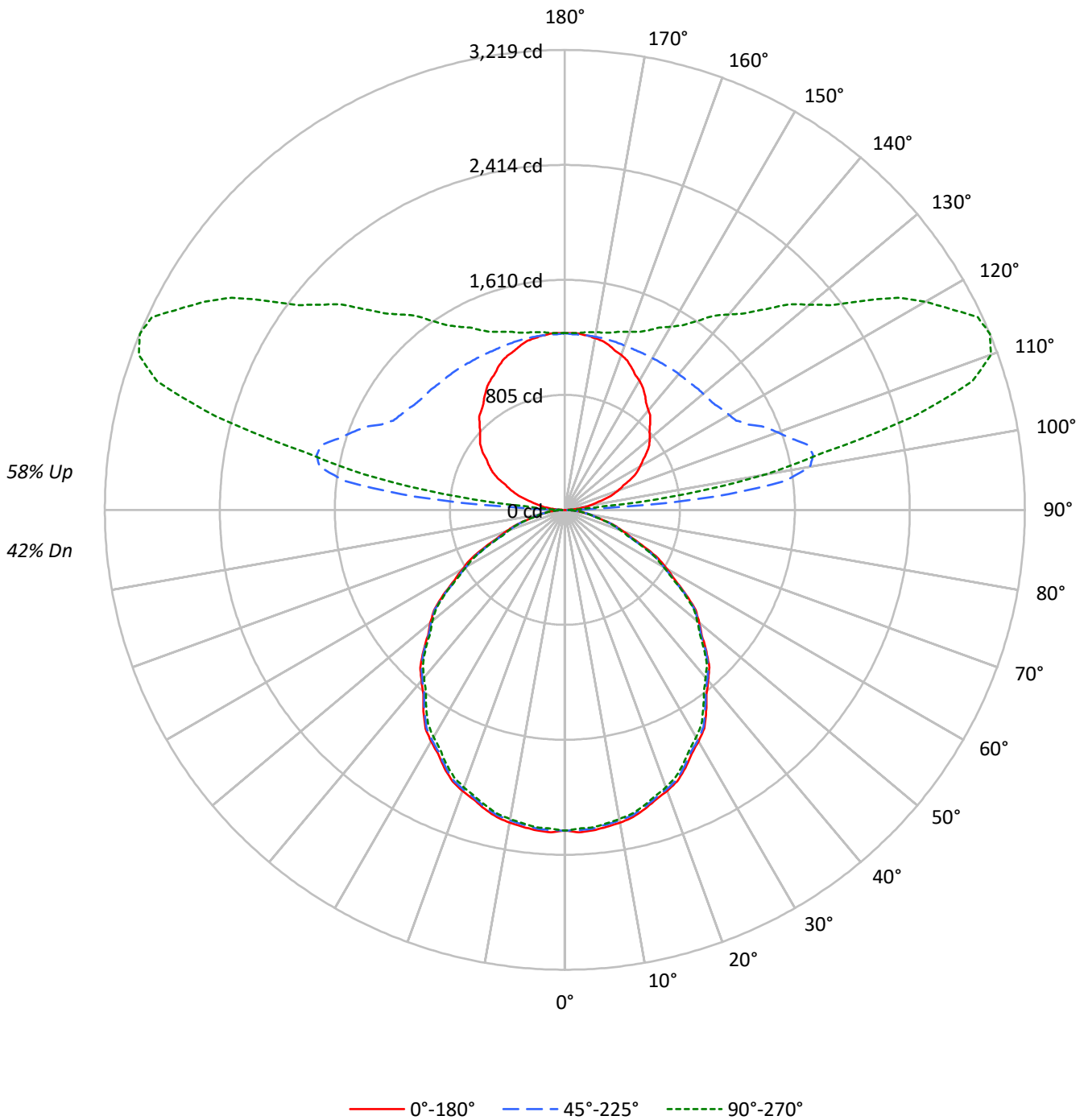
Lumens per Lamp: N/A
Luminaire Lumens: 13781.4 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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



TEST NUMBER: P563592
CATALOG NUMBER: SQ4-PP3-100U-075D-835-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P563592

CATALOG NUMBER: SQ4-PP3-100U-075D-835-1D-UNV-STD-W-8

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°	10357	10357	10357
5°	10433	10369	10333
10°	10415	10341	10296
15°	10346	10290	10234
20°	10278	10220	10142
25°	10156	10085	9986
30°	9967	9915	9790
35°	9707	9641	9518
40°	9397	9337	9230
45°	9140	9075	8986
50°	8812	8755	8670
55°	8356	8245	8182
60°	7606	7388	7352
65°	6701	6422	6401
70°	5785	5546	5546
75°	4980	4910	4839
80°	4391	4444	4338
85°	3435	3747	3747



TEST NUMBER: P563592

CATALOG NUMBER: SQ4-PP3-100U-075D-835-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.3	1.5
10°-20°	606.2	4.4
20°-30°	908.0	6.6
30°-40°	1065.0	7.7
40°-50°	1068.3	7.8
50°-60°	911.4	6.6
60°-70°	594.4	4.3
70°-80°	298.2	2.2
80°-90°	85.1	0.6
90°-100°	579.0	4.2
100°-110°	1598.3	11.6
110°-120°	1648.4	12.0
120°-130°	1324.6	9.6
130°-140°	1041.0	7.6
140°-150°	798.4	5.8
150°-160°	573.8	4.2
160°-170°	350.9	2.5
170°-180°	118.3	0.9
0°-30°	1726.4	12.5
0°-40°	2791.4	20.3
0°-60°	4771.1	34.6
0°-90°	5748.8	41.7
90°-120°	3825.6	27.8
90°-150°	6989.6	50.7
90°-180°	8033.0	58.3
0°-180°	13781.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2245	2245	2245	2245	2245	
5°	2253	2232	2239	2231	2231	214
15°	2166	2145	2155	2147	2143	611
25°	1995	1972	1981	1964	1962	917
35°	1724	1706	1712	1692	1690	1077
45°	1401	1391	1391	1377	1377	1079
55°	1039	1035	1025	1019	1017	923
65°	614	602	588	584	586	613
75°	279	279	276	274	272	303
85°	65	71	71	71	71	76
90°	4	8	16	18	20	8
95°	85	313	1050	432	281	91
105°	285	440	1758	2685	2528	303
115°	510	617	1416	2804	3189	501
125°	700	797	1284	2172	2550	623
135°	843	934	1248	1760	1984	652
145°	977	1045	1232	1498	1612	612
155°	1102	1138	1222	1344	1387	508
165°	1193	1208	1228	1276	1286	336
175°	1236	1238	1230	1248	1244	117
180°	1236	1236	1236	1236	1236	



TEST NUMBER: P563592

CATALOG NUMBER: SQ4-PP3-100U-075D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2245.1	2245.1	2245.1	2245.1	2245.1
2.5°	2259.3	2240.8	2245.1	2241.7	2232.5
5°	2253.0	2231.8	2239.2	2231.3	2231.3
7.5°	2237.6	2214.5	2221.9	2214.0	2213.6
10°	2223.5	2200.4	2207.7	2199.8	2197.9
12.5°	2203.0	2179.9	2188.8	2179.4	2179.0
15°	2166.4	2145.2	2154.6	2146.6	2142.8
17.5°	2125.1	2102.0	2113.3	2102.2	2100.7
20°	2093.6	2070.5	2081.8	2066.0	2066.0
22.5°	2055.8	2032.7	2045.6	2025.1	2025.1
25°	1995.2	1972.1	1981.4	1963.7	1961.8
27.5°	1923.2	1900.5	1910.2	1890.1	1889.7
30°	1871.2	1850.1	1861.4	1839.7	1837.8
32.5°	1814.6	1795.0	1803.2	1781.5	1779.5
35°	1723.7	1706.4	1711.9	1692.1	1690.2
37.5°	1628.0	1610.3	1616.6	1599.7	1598.9
40°	1560.4	1548.8	1550.5	1536.7	1532.8
42.5°	1497.4	1484.3	1486.0	1472.2	1471.4
45°	1401.0	1391.4	1391.1	1377.4	1377.4
47.5°	1298.7	1291.3	1289.2	1277.8	1277.4
50°	1227.8	1222.0	1219.9	1210.1	1208.1
52.5°	1153.8	1151.1	1144.4	1136.1	1135.7
55°	1038.9	1035.1	1025.1	1019.2	1017.3
57.5°	914.2	906.5	895.3	886.7	888.2
60°	824.4	816.8	800.8	796.9	796.9
62.5°	737.9	728.6	712.7	707.2	710.3
65°	613.9	602.4	588.3	584.4	586.4
67.5°	501.4	491.0	475.8	475.7	474.2
70°	428.9	423.2	411.2	411.2	411.2
72.5°	364.4	361.7	353.0	353.0	351.4
75°	279.4	279.4	275.5	273.5	271.5
77.5°	209.4	210.1	208.2	206.1	202.7
80°	165.3	169.1	167.3	165.2	163.3
82.5°	124.4	128.2	127.9	124.3	124.0
85°	64.9	70.7	70.8	70.8	70.8
87.5°	18.1	25.0	28.4	28.8	30.7
90°	4.0	7.8	15.8	17.8	19.8
92.5°	35.6	147.8	264.3	96.4	75.2
95°	85.1	313.3	1050.3	431.7	280.9
97.5°	140.8	350.9	1555.9	1197.9	867.6
100°	182.0	373.5	1742.6	1755.0	1426.2
102.5°	221.5	399.1	1779.0	2168.4	1856.6
105°	284.8	439.6	1758.5	2684.6	2527.9
107.5°	352.1	489.8	1660.4	2933.5	2990.8
110°	399.6	523.3	1584.4	2987.1	3172.8



TEST NUMBER: P563592

CATALOG NUMBER: SQ4-PP3-100U-075D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	442.3	561.4	1513.2	2944.8	3218.7
115°	510.3	616.7	1416.3	2803.7	3188.6
117.5°	569.7	675.7	1352.6	2605.1	3043.0
120°	609.2	713.7	1327.3	2470.7	2911.7
122.5°	647.2	747.0	1306.7	2345.2	2762.9
125°	700.2	796.9	1283.7	2172.5	2549.7
127.5°	745.3	842.0	1270.3	2026.6	2351.9
130°	775.4	872.1	1264.0	1937.3	2233.2
132.5°	803.9	895.9	1257.6	1862.3	2130.3
135°	842.6	933.5	1248.1	1759.6	1984.0
137.5°	886.2	968.9	1243.4	1673.4	1864.9
140°	909.9	991.1	1240.2	1615.9	1784.2
142.5°	936.8	1011.8	1237.1	1564.8	1713.0
145°	977.1	1044.8	1232.3	1498.0	1612.1
147.5°	1015.9	1075.1	1228.0	1441.6	1530.2
150°	1044.4	1092.8	1226.4	1408.0	1479.6
152.5°	1066.6	1111.8	1224.8	1379.2	1438.4
155°	1101.8	1138.5	1222.4	1344.1	1386.6
157.5°	1134.2	1162.4	1222.8	1318.4	1347.4
160°	1153.2	1178.3	1224.4	1304.0	1325.3
162.5°	1169.0	1191.1	1226.0	1291.2	1307.9
165°	1192.8	1208.2	1228.4	1276.1	1285.7
167.5°	1211.0	1220.2	1230.3	1266.8	1269.9
170°	1220.4	1228.2	1230.3	1262.0	1262.0
172.5°	1228.4	1233.0	1230.3	1255.6	1254.1
175°	1236.3	1238.2	1230.3	1248.1	1244.2
177.5°	1239.4	1237.9	1229.9	1240.9	1237.9
180°	1236.3	1236.3	1236.3	1236.3	1236.3

(END OF REPORT)