

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: P562956

Luminaire Tested: **SQ4-PC3-100U-100D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562956
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-100U-100D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

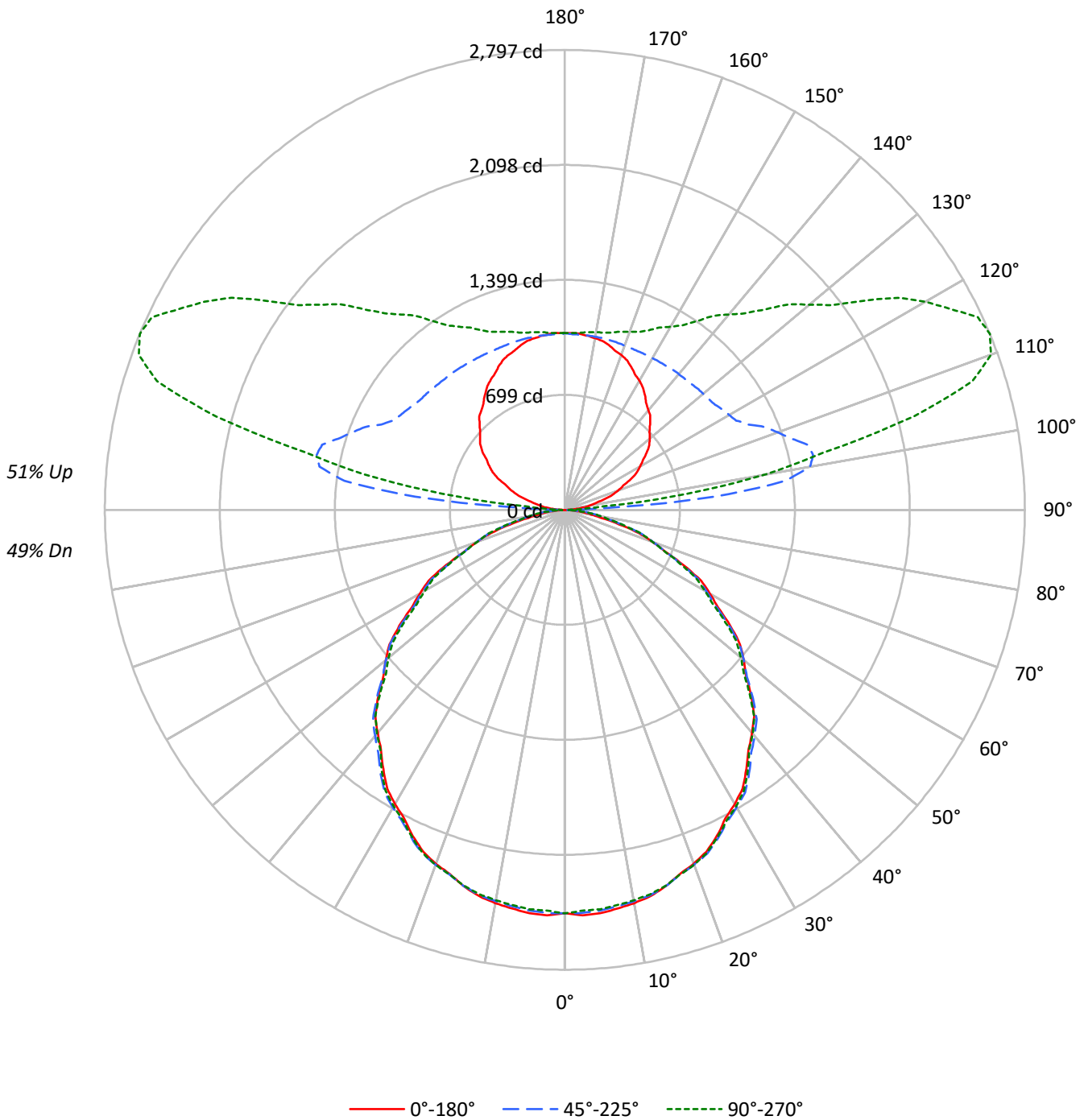
Lumens per Lamp: N/A
Luminaire Lumens: 13679.1 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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



TEST NUMBER: P562956
CATALOG NUMBER: SQ4-PC3-100U-100D-935-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P562956

CATALOG NUMBER: SQ4-PC3-100U-100D-935-1D-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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	81	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	33	29
4	74	63	55	49	68	59	52	46	50	45	40	42	38	34	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	42	37	57	47	40	34	40	34	30	34	29	26	28	24	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20	17
8	54	41	34	28	49	38	32	27	33	28	24	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11321	11321	11321
5°	11406	11332	11290
10°	11378	11325	11293
15°	11318	11318	11307
20°	11244	11277	11277
25°	11137	11218	11184
30°	11002	11135	11087
35°	10838	11005	10928
40°	10659	10809	10700
45°	10466	10539	10376
50°	10192	10192	10029
55°	9868	9741	9594
60°	9391	9203	9056
65°	8681	8508	8432
70°	7600	7661	7631
75°	6115	6764	6803
80°	4346	5736	5794
85°	2646	4811	4811



TEST NUMBER: P562956

CATALOG NUMBER: SQ4-PC3-100U-100D-935-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.2	1.7
10°-20°	666.5	4.9
20°-30°	1009.3	7.4
30°-40°	1210.0	8.8
40°-50°	1233.8	9.0
50°-60°	1077.0	7.9
60°-70°	771.0	5.6
70°-80°	397.1	2.9
80°-90°	102.6	0.8
90°-100°	503.0	3.7
100°-110°	1388.8	10.2
110°-120°	1432.3	10.5
120°-130°	1150.9	8.4
130°-140°	904.5	6.6
140°-150°	693.7	5.1
150°-160°	498.6	3.6
160°-170°	304.9	2.2
170°-180°	102.8	0.8
0°-30°	1908.0	13.9
0°-40°	3118.0	22.8
0°-60°	5428.7	39.7
0°-90°	6699.6	49.0
90°-120°	3324.1	24.3
90°-150°	6073.2	44.4
90°-180°	6979.0	51.0
0°-180°	13679.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2454	2454	2454	2454	2454	
5°	2463	2439	2447	2440	2438	234
15°	2370	2350	2370	2370	2368	668
25°	2188	2173	2204	2197	2197	1007
35°	1925	1920	1954	1940	1940	1204
45°	1604	1600	1616	1595	1590	1235
55°	1227	1211	1211	1193	1193	1094
65°	795	778	779	772	772	787
75°	343	359	380	382	382	371
85°	50	77	91	93	91	68
90°	3	7	14	16	17	7
95°	74	272	913	375	244	79
105°	248	382	1528	2333	2196	263
115°	443	536	1231	2436	2770	436
125°	608	692	1115	1888	2215	541
135°	732	811	1084	1529	1724	566
145°	849	908	1071	1302	1401	532
155°	957	989	1062	1168	1205	441
165°	1036	1050	1067	1109	1117	292
175°	1074	1076	1069	1084	1081	102
180°	1074	1074	1074	1074	1074	

TEST NUMBER: P562956

CATALOG NUMBER: SQ4-PC3-100U-100D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2454.0	2454.0	2454.0	2454.0	2454.0
2.5°	2468.5	2447.2	2454.0	2448.3	2439.4
5°	2463.1	2438.6	2447.2	2440.3	2438.1
7.5°	2445.3	2420.9	2432.2	2427.6	2425.3
10°	2429.0	2404.5	2417.6	2413.0	2410.8
12.5°	2407.2	2384.5	2399.4	2394.9	2394.4
15°	2369.9	2349.9	2369.9	2369.9	2367.6
17.5°	2323.1	2304.9	2326.3	2327.6	2326.3
20°	2290.4	2270.4	2297.2	2295.0	2297.2
22.5°	2250.4	2233.9	2262.7	2256.8	2259.0
25°	2188.1	2172.6	2204.0	2197.2	2197.2
27.5°	2114.5	2103.4	2137.7	2130.4	2130.4
30°	2065.4	2054.3	2090.4	2081.3	2081.3
32.5°	2010.9	2003.3	2037.7	2026.8	2026.8
35°	1924.6	1920.1	1954.1	1940.5	1940.5
37.5°	1835.5	1831.5	1862.3	1845.8	1840.5
40°	1770.0	1767.8	1795.0	1776.9	1776.9
42.5°	1704.6	1702.4	1726.0	1704.1	1704.1
45°	1604.2	1599.7	1615.5	1595.0	1590.5
47.5°	1494.7	1490.2	1500.1	1477.8	1475.6
50°	1420.1	1415.7	1420.1	1399.6	1397.4
52.5°	1343.8	1335.8	1336.5	1316.0	1315.6
55°	1227.0	1211.4	1211.1	1192.9	1192.9
57.5°	1103.4	1082.9	1084.7	1069.2	1067.0
60°	1017.9	995.7	997.5	983.8	981.6
62.5°	934.3	908.6	913.9	898.4	898.0
65°	795.3	777.5	779.4	772.5	772.5
67.5°	661.7	645.2	657.1	651.7	651.2
70°	563.5	552.4	568.0	568.0	565.8
72.5°	472.6	472.2	491.7	491.7	493.1
75°	343.1	358.7	379.5	381.7	381.7
77.5°	229.0	256.6	279.5	280.4	279.9
80°	163.6	194.7	215.9	220.4	218.1
82.5°	110.9	143.8	161.3	165.8	163.6
85°	50.0	76.6	90.9	93.1	90.9
87.5°	15.2	31.9	39.1	39.4	36.2
90°	3.4	6.8	13.7	15.5	17.2
92.5°	30.9	128.4	229.6	83.8	65.3
95°	73.9	272.2	912.6	375.1	244.1
97.5°	122.4	304.9	1351.9	1040.9	753.8
100°	158.1	324.5	1514.2	1524.9	1239.2
102.5°	192.5	346.8	1545.8	1884.1	1613.2
105°	247.5	381.9	1527.9	2332.6	2196.5
107.5°	305.9	425.6	1442.7	2548.9	2598.7
110°	347.2	454.7	1376.7	2595.5	2756.8



TEST NUMBER: P562956

CATALOG NUMBER: SQ4-PC3-100U-100D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	384.3	487.8	1314.8	2558.7	2796.7
115°	443.4	535.9	1230.6	2436.1	2770.5
117.5°	495.0	587.1	1175.2	2263.6	2644.0
120°	529.4	620.1	1153.2	2146.8	2529.9
122.5°	562.4	649.1	1135.4	2037.7	2400.7
125°	608.4	692.4	1115.4	1887.7	2215.4
127.5°	647.6	731.6	1103.7	1760.9	2043.5
130°	673.7	757.8	1098.2	1683.3	1940.4
132.5°	698.5	778.5	1092.7	1618.1	1851.0
135°	732.2	811.1	1084.5	1528.9	1723.9
137.5°	770.0	841.9	1080.4	1454.0	1620.4
140°	790.6	861.2	1077.6	1404.1	1550.3
142.5°	814.0	879.2	1074.9	1359.7	1488.4
145°	849.0	907.9	1070.7	1301.6	1400.7
147.5°	882.7	934.1	1067.0	1252.6	1329.6
150°	907.5	949.5	1065.6	1223.4	1285.6
152.5°	926.7	966.0	1064.2	1198.4	1249.8
155°	957.3	989.2	1062.2	1167.8	1204.8
157.5°	985.5	1010.0	1062.5	1145.6	1170.8
160°	1002.0	1023.8	1063.9	1133.0	1151.5
162.5°	1015.8	1034.9	1065.2	1122.0	1136.4
165°	1036.4	1049.8	1067.3	1108.8	1117.2
167.5°	1052.2	1060.3	1069.0	1100.7	1103.4
170°	1060.4	1067.2	1069.0	1096.5	1096.5
172.5°	1067.3	1071.3	1069.0	1091.0	1089.7
175°	1074.2	1075.9	1069.0	1084.4	1081.1
177.5°	1076.9	1075.6	1068.7	1078.2	1075.6
180°	1074.2	1074.2	1074.2	1074.2	1074.2

(END OF REPORT)