

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: P562900

Luminaire Tested: **SQ4-PC3-100U-050D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562900
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-050D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

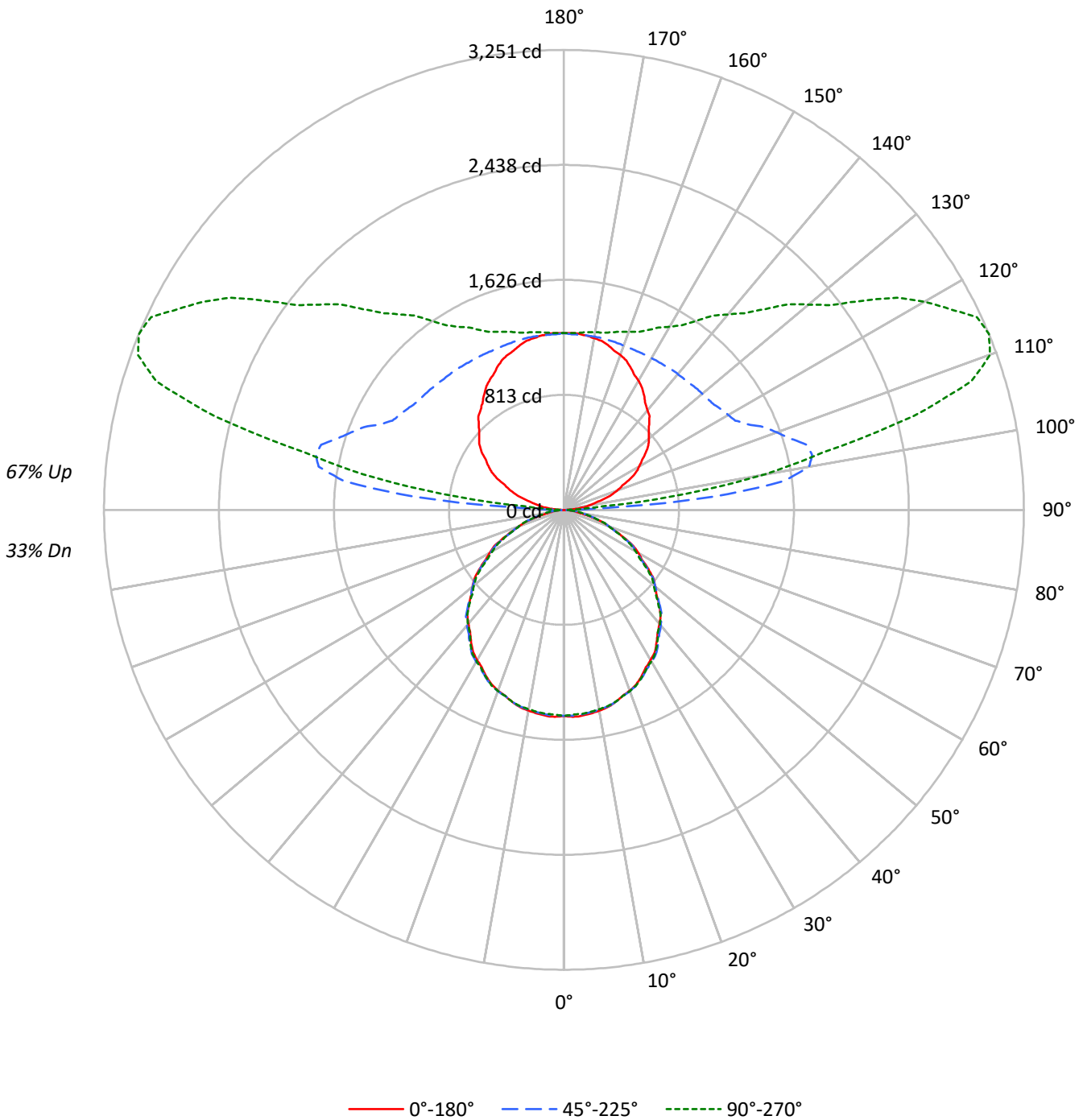
Lumens per Lamp: N/A
Luminaire Lumens: 12091.6 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 84.7
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	78	72	67	77	71	66	62	57	53	50	44	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	46	42	38	36	33	28	26	24	20
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	39	34	31	31	27	24	22	20	18	15
6	60	48	40	35	54	44	37	32	35	30	27	28	24	21	20	18	16	13
7	55	43	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	16	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6720	6720	6720
5°	6771	6727	6702
10°	6754	6722	6703
15°	6719	6719	6712
20°	6674	6694	6694
25°	6611	6659	6639
30°	6531	6610	6581
35°	6433	6532	6486
40°	6327	6416	6351
45°	6212	6256	6159
50°	6050	6050	5953
55°	5857	5782	5695
60°	5574	5463	5376
65°	5153	5050	5006
70°	4512	4548	4529
75°	3631	4014	4039
80°	2580	3403	3440
85°	1572	2858	2858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.9	1.1
10°-20°	395.6	3.3
20°-30°	599.1	5.0
30°-40°	718.3	5.9
40°-50°	732.4	6.1
50°-60°	639.3	5.3
60°-70°	457.7	3.8
70°-80°	235.7	1.9
80°-90°	62.2	0.5
90°-100°	584.8	4.8
100°-110°	1614.4	13.4
110°-120°	1664.9	13.8
120°-130°	1337.9	11.1
130°-140°	1051.5	8.7
140°-150°	806.4	6.7
150°-160°	579.6	4.8
160°-170°	354.4	2.9
170°-180°	119.5	1.0
0°-30°	1132.6	9.4
0°-40°	1850.8	15.3
0°-60°	3222.5	26.7
0°-90°	3978.1	32.9
90°-120°	3864.1	32.0
90°-150°	7060.0	58.4
90°-180°	8113.0	67.1
0°-180°	12091.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1457	1457	1457	1457	1457	
5°	1462	1448	1453	1448	1447	139
15°	1407	1395	1407	1407	1405	397
25°	1299	1290	1308	1304	1304	598
35°	1142	1140	1160	1152	1152	714
45°	952	950	959	947	944	733
55°	728	719	719	708	708	649
65°	472	462	463	459	459	467
75°	204	213	225	227	227	220
85°	30	46	54	55	54	40
90°	4	8	16	18	20	7
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: P562900

CATALOG NUMBER: SQ4-PC3-100U-050D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1456.7	1456.7	1456.7	1456.7	1456.7
2.5°	1465.3	1452.6	1456.7	1453.3	1448.0
5°	1462.1	1447.6	1452.6	1448.5	1447.2
7.5°	1451.5	1437.0	1443.7	1441.0	1439.7
10°	1441.8	1427.3	1435.1	1432.4	1431.0
12.5°	1428.9	1415.4	1424.3	1421.6	1421.3
15°	1406.8	1394.9	1406.8	1406.7	1405.4
17.5°	1379.0	1368.2	1380.9	1381.7	1380.9
20°	1359.6	1347.7	1363.6	1362.3	1363.6
22.5°	1335.8	1326.1	1343.1	1339.6	1340.9
25°	1298.9	1289.6	1308.3	1304.3	1304.3
27.5°	1255.2	1248.6	1268.9	1264.6	1264.6
30°	1226.0	1219.4	1240.9	1235.5	1235.5
32.5°	1193.7	1189.2	1209.6	1203.1	1203.1
35°	1142.4	1139.8	1159.9	1151.8	1151.8
37.5°	1089.5	1087.2	1105.5	1095.7	1092.5
40°	1050.7	1049.4	1065.5	1054.7	1054.7
42.5°	1011.8	1010.5	1024.5	1011.6	1011.6
45°	952.2	949.6	959.0	946.8	944.1
47.5°	887.2	884.6	890.5	877.2	875.9
50°	843.0	840.3	843.0	830.8	829.5
52.5°	797.7	792.9	793.3	781.2	780.9
55°	728.3	719.1	718.9	708.1	708.1
57.5°	655.0	642.8	643.9	634.7	633.4
60°	604.2	591.1	592.1	584.0	582.7
62.5°	554.6	539.3	542.5	533.3	533.0
65°	472.1	461.5	462.6	458.6	458.6
67.5°	392.8	383.0	390.1	386.8	386.6
70°	334.5	327.9	337.2	337.2	335.8
72.5°	280.5	280.3	291.9	291.9	292.7
75°	203.7	212.9	225.2	226.6	226.6
77.5°	136.0	152.3	165.9	166.4	166.2
80°	97.1	115.6	128.1	130.8	129.5
82.5°	65.8	85.3	95.8	98.4	97.1
85°	29.7	45.5	54.0	55.3	54.0
87.5°	9.4	19.7	24.8	25.1	23.4
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: P562900

CATALOG NUMBER: SQ4-PC3-100U-050D-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)