

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: P562612

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562612
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PC3-050U-050D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

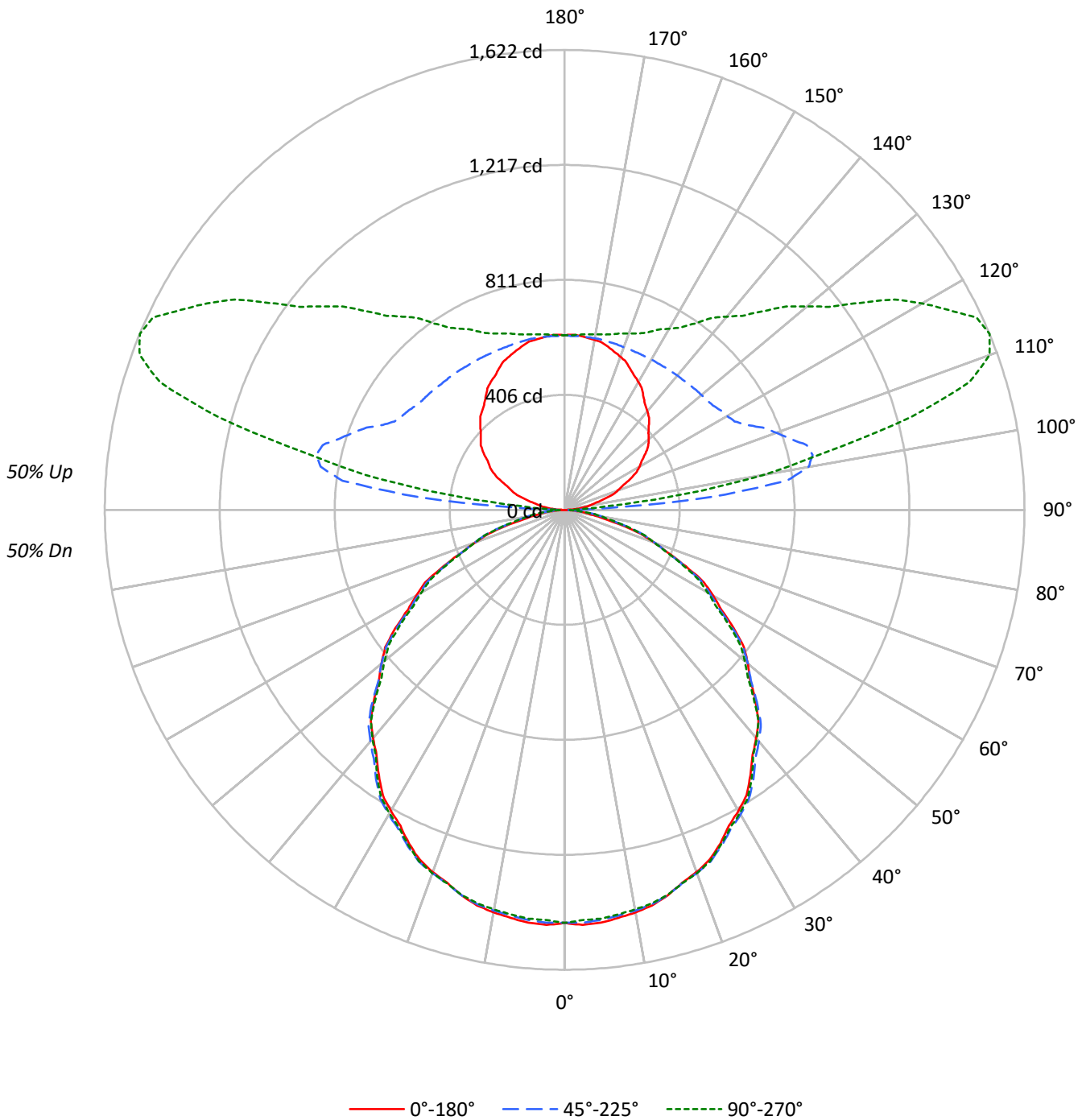
Lumens per Lamp: N/A
Luminaire Lumens: 8001.8 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 58.9
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: P562612
CATALOG NUMBER: SQ4-PC3-050U-050D-840-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P562612

CATALOG NUMBER: SQ4-PC3-050U-050D-840-1D-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	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	51	48	44	42	40	35
3	81	72	64	59	75	66	60	55	56	52	48	47	44	41	39	36	34	30
4	74	63	56	49	68	59	52	46	50	45	41	42	38	35	34	32	29	25
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	19	22	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°	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



TEST NUMBER: P562612

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.9	1.7
10°-20°	395.6	4.9
20°-30°	599.1	7.5
30°-40°	718.3	9.0
40°-50°	732.4	9.2
50°-60°	639.3	8.0
60°-70°	457.7	5.7
70°-80°	235.7	2.9
80°-90°	62.0	0.8
90°-100°	295.8	3.7
100°-110°	803.7	10.0
110°-120°	826.3	10.3
120°-130°	660.7	8.3
130°-140°	519.1	6.5
140°-150°	398.0	5.0
150°-160°	286.2	3.6
160°-170°	175.1	2.2
170°-180°	59.0	0.7
0°-30°	1132.6	14.2
0°-40°	1850.8	23.1
0°-60°	3222.5	40.3
0°-90°	3977.9	49.7
90°-120°	1925.8	24.1
90°-150°	3503.7	43.8
90°-180°	4024.0	50.3
0°-180°	8001.8	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°	2	8	14	18	18	4
95°	44	162	515	224	151	46
105°	143	222	884	1346	1266	152
115°	254	308	707	1407	1603	250
125°	349	397	640	1078	1272	311
135°	420	467	622	878	991	325
145°	486	520	614	746	803	305
155°	549	568	610	670	690	253
165°	594	602	612	638	640	168
175°	616	618	614	622	620	59
180°	616	616	616	616	616	

TEST NUMBER: P562612

CATALOG NUMBER: SQ4-PC3-050U-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°	9.0	19.7	24.4	25.1	23.0
90°	2.0	7.8	13.9	17.8	17.8
92.5°	17.8	81.0	140.7	60.4	51.1
95°	43.6	161.8	515.2	224.2	150.6
97.5°	72.1	178.7	789.9	614.5	431.6
100°	91.2	190.0	873.9	885.9	715.4
102.5°	110.2	201.2	896.1	1095.6	945.2
105°	142.7	222.1	883.8	1345.7	1266.3
107.5°	176.4	246.5	832.7	1474.8	1496.9
110°	200.1	264.1	794.6	1500.3	1595.2



TEST NUMBER: P562612

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.8	281.6	756.6	1479.2	1622.2
115°	253.6	307.9	707.4	1407.4	1603.1
117.5°	284.6	336.5	676.1	1305.8	1526.3
120°	305.2	355.5	661.9	1237.6	1456.5
122.5°	322.6	373.0	652.4	1169.2	1380.4
125°	348.8	397.2	640.1	1078.4	1272.2
127.5°	372.2	420.2	633.3	1009.7	1175.9
130°	386.4	432.9	630.2	966.5	1115.7
132.5°	400.7	447.2	627.0	929.6	1061.8
135°	420.1	466.6	622.2	878.4	990.8
137.5°	441.1	483.4	619.9	833.2	927.8
140°	453.8	494.5	618.3	804.5	889.8
142.5°	466.5	504.1	616.7	782.0	853.3
145°	485.5	520.4	614.3	746.4	802.6
147.5°	506.9	536.7	612.3	718.4	762.5
150°	521.2	546.4	612.3	702.3	737.2
152.5°	532.3	554.4	610.7	687.9	716.6
155°	548.9	568.3	610.3	670.2	689.6
157.5°	565.2	580.3	610.3	658.2	673.0
160°	574.7	588.2	610.3	650.2	661.9
162.5°	584.2	594.6	611.9	643.8	652.4
165°	594.5	602.2	612.3	638.1	640.1
167.5°	605.2	609.1	614.3	631.4	632.9
170°	608.4	612.2	614.3	628.2	628.2
172.5°	611.5	613.9	614.3	625.0	625.0
175°	616.3	618.2	614.3	622.2	620.3
177.5°	617.9	617.9	613.1	619.4	616.3
180°	616.3	616.3	616.3	616.3	616.3

(END OF REPORT)