

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: P562611

Luminaire Tested: **SQ4-PC3-050U-050D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562611
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-6
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

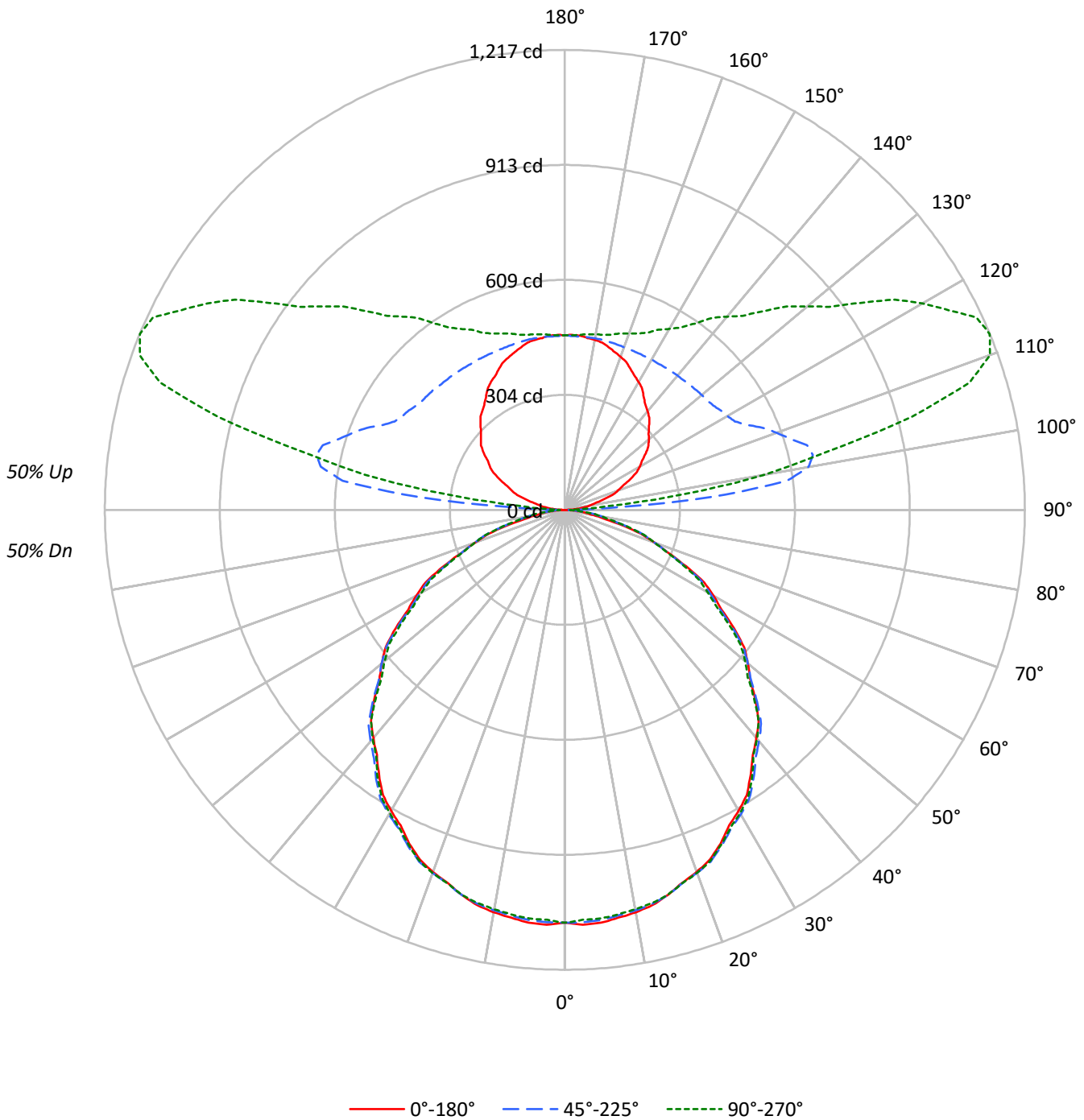
Lumens per Lamp: N/A
Luminaire Lumens: 6001.4 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 44.8
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: P562611
CATALOG NUMBER: SQ4-PC3-050U-050D-840-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P562611

CATALOG NUMBER: SQ4-PC3-050U-050D-840-1D-UNV-STD-W-6

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	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°	6770	6727	6702
10°	6754	6722	6703
15°	6719	6719	6712
20°	6674	6694	6694
25°	6611	6659	6639
30°	6531	6610	6581
35°	6433	6533	6487
40°	6327	6416	6352
45°	6213	6256	6159
50°	6049	6049	5953
55°	5858	5782	5695
60°	5575	5463	5376
65°	5154	5050	5005
70°	4512	4548	4530
75°	3629	4014	4038
80°	2579	3404	3439
85°	1574	2858	2858



TEST NUMBER: P562611

CATALOG NUMBER: SQ4-PC3-050U-050D-840-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.4	1.7
10°-20°	296.7	4.9
20°-30°	449.3	7.5
30°-40°	538.7	9.0
40°-50°	549.3	9.2
50°-60°	479.5	8.0
60°-70°	343.3	5.7
70°-80°	176.8	2.9
80°-90°	46.5	0.8
90°-100°	221.9	3.7
100°-110°	602.8	10.0
110°-120°	619.7	10.3
120°-130°	495.5	8.3
130°-140°	389.3	6.5
140°-150°	298.5	5.0
150°-160°	214.7	3.6
160°-170°	131.3	2.2
170°-180°	44.2	0.7
0°-30°	849.4	14.2
0°-40°	1388.1	23.1
0°-60°	2416.9	40.3
0°-90°	2983.4	49.7
90°-120°	1444.4	24.1
90°-150°	2627.7	43.8
90°-180°	3018.0	50.3
0°-180°	6001.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1092	1092	1092	1092	1092	
5°	1096	1086	1090	1086	1085	104
15°	1055	1046	1055	1055	1054	297
25°	974	967	981	978	978	448
35°	857	855	870	864	864	536
45°	714	712	719	710	708	550
55°	546	539	539	531	531	487
65°	354	346	347	344	344	350
75°	153	160	169	170	170	165
85°	22	34	40	42	40	30
90°	2	6	10	13	13	3
95°	33	121	386	168	113	35
105°	107	167	663	1009	950	114
115°	190	231	531	1056	1202	188
125°	262	298	480	809	954	233
135°	315	350	467	659	743	244
145°	364	390	461	560	602	229
155°	412	426	458	503	517	190
165°	446	452	459	479	480	126
175°	462	464	461	467	465	44
180°	462	462	462	462	462	

TEST NUMBER: P562611

CATALOG NUMBER: SQ4-PC3-050U-050D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1092.5	1092.5	1092.5	1092.5	1092.5
2.5°	1099.0	1089.5	1092.5	1090.0	1086.0
5°	1096.5	1085.7	1089.5	1086.4	1085.4
7.5°	1088.7	1077.8	1082.8	1080.7	1079.8
10°	1081.4	1070.5	1076.3	1074.3	1073.3
12.5°	1071.7	1061.6	1068.2	1066.2	1066.0
15°	1055.1	1046.2	1055.1	1055.1	1054.1
17.5°	1034.2	1026.1	1035.7	1036.2	1035.7
20°	1019.7	1010.8	1022.7	1021.7	1022.7
22.5°	1001.9	994.5	1007.3	1004.7	1005.7
25°	974.1	967.2	981.2	978.2	978.2
27.5°	941.4	936.4	951.7	948.5	948.5
30°	919.5	914.6	930.7	926.6	926.6
32.5°	895.2	891.9	907.2	902.3	902.3
35°	856.8	854.8	870.0	863.9	863.9
37.5°	817.2	815.4	829.1	821.8	819.4
40°	788.0	787.0	799.1	791.1	791.1
42.5°	758.9	757.9	768.4	758.7	758.7
45°	714.2	712.2	719.2	710.1	708.1
47.5°	665.4	663.4	667.8	657.9	656.9
50°	632.2	630.3	632.2	623.1	622.1
52.5°	598.2	594.7	595.0	585.9	585.7
55°	546.3	539.3	539.2	531.1	531.1
57.5°	491.2	482.1	482.9	476.0	475.0
60°	453.2	443.3	444.1	438.0	437.0
62.5°	416.0	404.5	406.9	400.0	399.8
65°	354.1	346.1	347.0	343.9	343.9
67.5°	294.6	287.3	292.5	290.1	289.9
70°	250.9	245.9	252.9	252.9	251.9
72.5°	210.4	210.2	218.9	218.9	219.5
75°	152.7	159.7	168.9	169.9	169.9
77.5°	102.0	114.2	124.4	124.8	124.6
80°	72.8	86.7	96.1	98.1	97.1
82.5°	49.4	64.0	71.8	73.8	72.8
85°	22.3	34.1	40.5	41.5	40.5
87.5°	6.8	14.8	18.3	18.8	17.2
90°	1.5	5.8	10.4	13.4	13.4
92.5°	13.4	60.8	105.5	45.3	38.3
95°	32.7	121.3	386.4	168.2	113.0
97.5°	54.1	134.0	592.4	460.9	323.7
100°	68.4	142.5	655.4	664.4	536.5
102.5°	82.6	150.9	672.1	821.7	708.9
105°	107.0	166.6	662.9	1009.3	949.7
107.5°	132.3	184.9	624.5	1106.1	1122.7
110°	150.1	198.1	596.0	1125.2	1196.4



TEST NUMBER: P562611

CATALOG NUMBER: SQ4-PC3-050U-050D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	165.6	211.2	567.4	1109.4	1216.6
115°	190.2	230.9	530.6	1055.6	1202.4
117.5°	213.4	252.4	507.1	979.3	1144.7
120°	228.9	266.7	496.4	928.2	1092.4
122.5°	242.0	279.7	489.3	876.9	1035.3
125°	261.6	297.9	480.1	808.8	954.2
127.5°	279.1	315.2	475.0	757.2	881.9
130°	289.8	324.7	472.6	724.8	836.7
132.5°	300.5	335.4	470.2	697.2	796.3
135°	315.1	350.0	466.7	658.8	743.1
137.5°	330.8	362.5	464.9	624.9	695.9
140°	340.3	370.9	463.7	603.4	667.3
142.5°	349.9	378.0	462.5	586.5	640.0
145°	364.1	390.3	460.7	559.8	601.9
147.5°	380.2	402.6	459.2	538.8	571.9
150°	390.9	409.8	459.2	526.7	552.9
152.5°	399.2	415.8	458.1	515.9	537.4
155°	411.7	426.2	457.8	502.7	517.2
157.5°	423.9	435.2	457.8	493.7	504.7
160°	431.0	441.2	457.8	487.7	496.4
162.5°	438.1	446.0	458.9	482.9	489.3
165°	445.9	451.7	459.2	478.6	480.1
167.5°	453.9	456.8	460.7	473.5	474.7
170°	456.3	459.2	460.7	471.1	471.1
172.5°	458.6	460.4	460.7	468.8	468.8
175°	462.2	463.7	460.7	466.6	465.2
177.5°	463.4	463.4	459.8	464.5	462.2
180°	462.2	462.2	462.2	462.2	462.2

(END OF REPORT)