

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: P563209

Luminaire Tested: **SQ4-PP3-025U-075D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563209
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PP3-025U-075D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

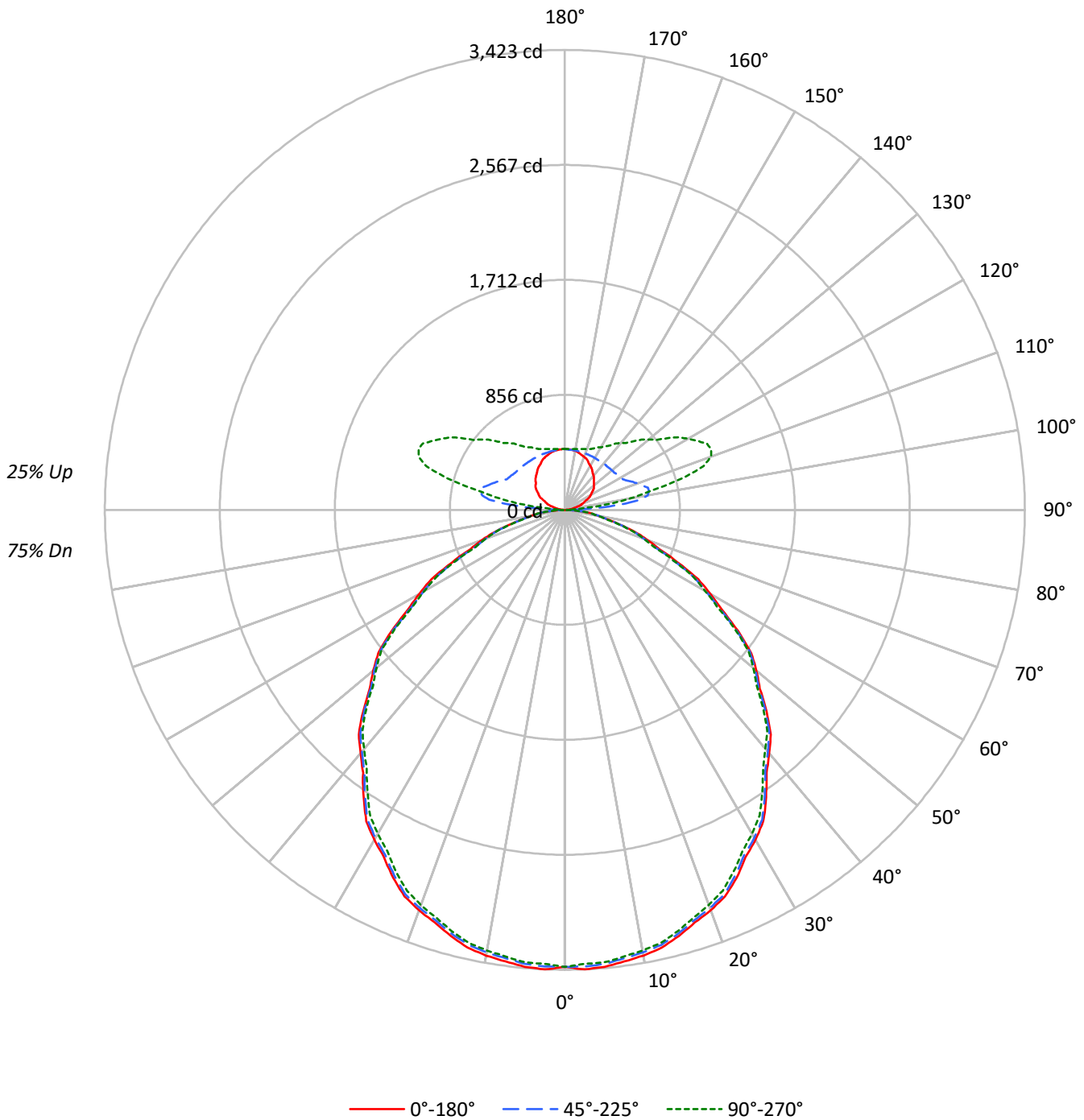
Lumens per Lamp: N/A
Luminaire Lumens: 11635.4 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 94.8
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: P563209
CATALOG NUMBER: SQ4-PP3-025U-075D-840-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P563209

CATALOG NUMBER: SQ4-PP3-025U-075D-840-1D-UNV-STD-W-12

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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	104	99	95	92	98	95	91	88	86	83	81	78	76	74	70	69	67	64
2	95	87	81	76	90	83	77	73	76	71	67	69	65	62	62	60	57	54
3	87	77	69	63	82	73	67	61	67	61	57	61	57	53	55	52	49	46
4	79	68	60	54	75	65	58	52	60	54	49	54	49	45	50	46	42	39
5	73	61	53	46	69	58	51	45	54	47	42	49	44	40	45	40	37	34
6	67	55	46	40	64	53	45	39	48	42	37	44	39	35	41	36	33	30
7	62	50	41	36	59	48	40	35	44	37	33	40	35	31	37	33	29	27
8	58	45	37	32	55	44	36	31	40	34	29	37	32	28	34	29	26	24
9	54	41	34	28	51	40	33	28	37	31	26	34	29	25	32	27	24	22
10	51	38	31	26	48	37	30	25	34	28	24	32	26	23	29	25	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10461	10461	10461
5°	10538	10473	10437
10°	10520	10446	10399
15°	10450	10393	10336
20°	10381	10323	10244
25°	10258	10187	10086
30°	10068	10015	9888
35°	9805	9737	9614
40°	9491	9431	9323
45°	9232	9167	9076
50°	8901	8843	8758
55°	8440	8328	8264
60°	7683	7463	7426
65°	6768	6487	6465
70°	5844	5603	5603
75°	5030	4960	4888
80°	4435	4488	4382
85°	3472	3786	3786



TEST NUMBER: P563209

CATALOG NUMBER: SQ4-PP3-025U-075D-840-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.6	2.8
10°-20°	918.4	7.9
20°-30°	1375.6	11.8
30°-40°	1613.6	13.9
40°-50°	1618.6	13.9
50°-60°	1380.8	11.9
60°-70°	900.5	7.7
70°-80°	451.8	3.9
80°-90°	127.5	1.1
90°-100°	220.1	1.9
100°-110°	578.6	5.0
110°-120°	600.0	5.2
120°-130°	481.3	4.1
130°-140°	377.6	3.2
140°-150°	289.8	2.5
150°-160°	208.7	1.8
160°-170°	127.7	1.1
170°-180°	43.1	0.4
0°-30°	2615.7	22.5
0°-40°	4229.3	36.3
0°-60°	7228.7	62.1
0°-90°	8708.5	74.8
90°-120°	1398.7	12.0
90°-150°	2547.3	21.9
90°-180°	2927.0	25.2
0°-180°	11635.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3402	3402	3402	3402	3402	
5°	3414	3381	3393	3381	3381	324
15°	3282	3250	3264	3252	3246	926
25°	3023	2988	3002	2975	2972	1390
35°	2612	2585	2594	2564	2561	1631
45°	2123	2108	2108	2087	2087	1634
55°	1574	1568	1553	1544	1541	1399
65°	930	913	891	886	888	928
75°	423	423	417	414	411	459
85°	98	107	107	107	107	116
90°	3	9	23	12	12	6
95°	29	114	379	195	133	32
105°	104	158	640	971	906	110
115°	185	225	512	1022	1167	183
125°	258	289	466	788	929	229
135°	307	338	452	636	721	237
145°	356	379	446	542	585	223
155°	402	414	446	490	504	185
165°	434	440	446	463	469	123
175°	452	452	449	454	454	43
180°	452	452	452	452	452	

TEST NUMBER: P563209

CATALOG NUMBER: SQ4-PP3-025U-075D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3401.5	3401.5	3401.5	3401.5	3401.5
2.5°	3423.0	3395.0	3401.5	3396.4	3382.5
5°	3413.5	3381.4	3392.6	3380.7	3380.7
7.5°	3390.2	3355.2	3366.4	3354.4	3353.8
10°	3368.7	3333.8	3344.9	3332.9	3330.0
12.5°	3337.7	3302.8	3316.3	3301.9	3301.4
15°	3282.3	3250.2	3264.4	3252.3	3246.5
17.5°	3219.7	3184.7	3201.8	3185.0	3182.7
20°	3172.0	3137.0	3154.1	3130.2	3130.2
22.5°	3114.7	3079.8	3099.2	3068.2	3068.2
25°	3022.9	2987.9	3002.1	2975.2	2972.2
27.5°	2913.8	2879.4	2894.1	2863.7	2863.1
30°	2835.1	2803.0	2820.2	2787.3	2784.4
32.5°	2749.3	2719.5	2732.0	2699.1	2696.2
35°	2611.5	2585.3	2593.6	2563.8	2560.8
37.5°	2466.6	2439.8	2449.3	2423.7	2422.5
40°	2364.1	2346.6	2349.2	2328.2	2322.3
42.5°	2268.7	2248.9	2251.4	2230.5	2229.3
45°	2122.6	2108.0	2107.7	2086.8	2086.8
47.5°	1967.6	1956.5	1953.3	1936.0	1935.4
50°	1860.3	1851.5	1848.3	1833.4	1830.4
52.5°	1748.2	1744.1	1733.9	1721.3	1720.7
55°	1574.1	1568.2	1553.2	1544.2	1541.3
57.5°	1385.1	1373.4	1356.4	1343.4	1345.7
60°	1249.1	1237.5	1213.3	1207.4	1207.4
62.5°	1117.9	1104.0	1079.8	1071.5	1076.2
65°	930.1	912.6	891.4	885.5	888.4
67.5°	759.6	743.9	720.9	720.8	718.5
70°	649.9	641.2	623.1	623.1	623.1
72.5°	552.1	548.0	534.8	534.8	532.4
75°	423.3	423.3	417.4	414.3	411.4
77.5°	317.2	318.4	315.4	312.3	307.1
80°	250.4	256.2	253.4	250.4	247.4
82.5°	188.4	194.2	193.8	188.4	187.8
85°	98.4	107.1	107.3	107.3	107.3
87.5°	26.8	37.3	42.8	40.5	42.9
90°	2.9	8.6	23.2	11.6	11.6
92.5°	12.2	58.6	129.7	57.4	37.1
95°	28.9	113.9	379.2	195.4	133.2
97.5°	50.4	125.1	567.4	451.2	332.3
100°	66.6	134.5	625.3	633.6	492.1
102.5°	80.5	143.9	641.5	789.2	668.1
105°	104.2	158.0	639.7	971.1	906.0
107.5°	128.5	178.3	603.3	1065.6	1081.5
110°	144.7	190.0	573.2	1090.0	1157.9

TEST NUMBER: P563209

CATALOG NUMBER: SQ4-PP3-025U-075D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	160.9	204.0	545.4	1074.6	1178.7
115°	185.3	224.9	512.4	1022.2	1166.6
117.5°	209.0	245.2	489.8	949.6	1109.8
120°	222.9	256.9	480.5	900.9	1056.6
122.5°	236.8	270.8	473.6	852.2	1005.6
125°	257.6	288.8	466.0	787.7	929.2
127.5°	274.4	306.1	459.7	735.7	855.1
130°	283.7	317.6	457.4	703.0	813.4
132.5°	292.9	326.9	455.0	675.0	774.0
135°	306.8	338.0	451.6	635.9	720.8
137.5°	321.3	351.9	451.0	606.6	676.2
140°	332.9	361.2	448.7	583.3	648.4
142.5°	342.2	368.2	448.7	566.9	622.9
145°	356.0	378.7	445.8	542.3	584.7
147.5°	369.9	392.0	445.8	521.8	556.9
150°	379.2	399.0	445.8	510.1	538.4
152.5°	388.5	403.8	445.8	500.7	522.2
155°	402.4	413.7	445.8	489.5	503.7
157.5°	412.8	423.5	445.8	479.6	489.8
160°	419.7	428.2	445.8	474.9	480.5
162.5°	426.7	432.9	445.8	470.2	475.9
165°	434.2	439.9	445.8	463.3	468.9
167.5°	441.2	444.0	448.7	460.3	462.6
170°	445.8	448.6	448.7	460.3	460.3
172.5°	448.1	448.7	448.7	457.9	455.6
175°	451.6	451.6	448.7	454.5	454.5
177.5°	451.6	451.6	449.3	453.8	451.6
180°	451.6	451.6	451.6	451.6	451.6

(END OF REPORT)