

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: P562610

Luminaire Tested: **SQ4-PC3-050U-050D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562610
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-4
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

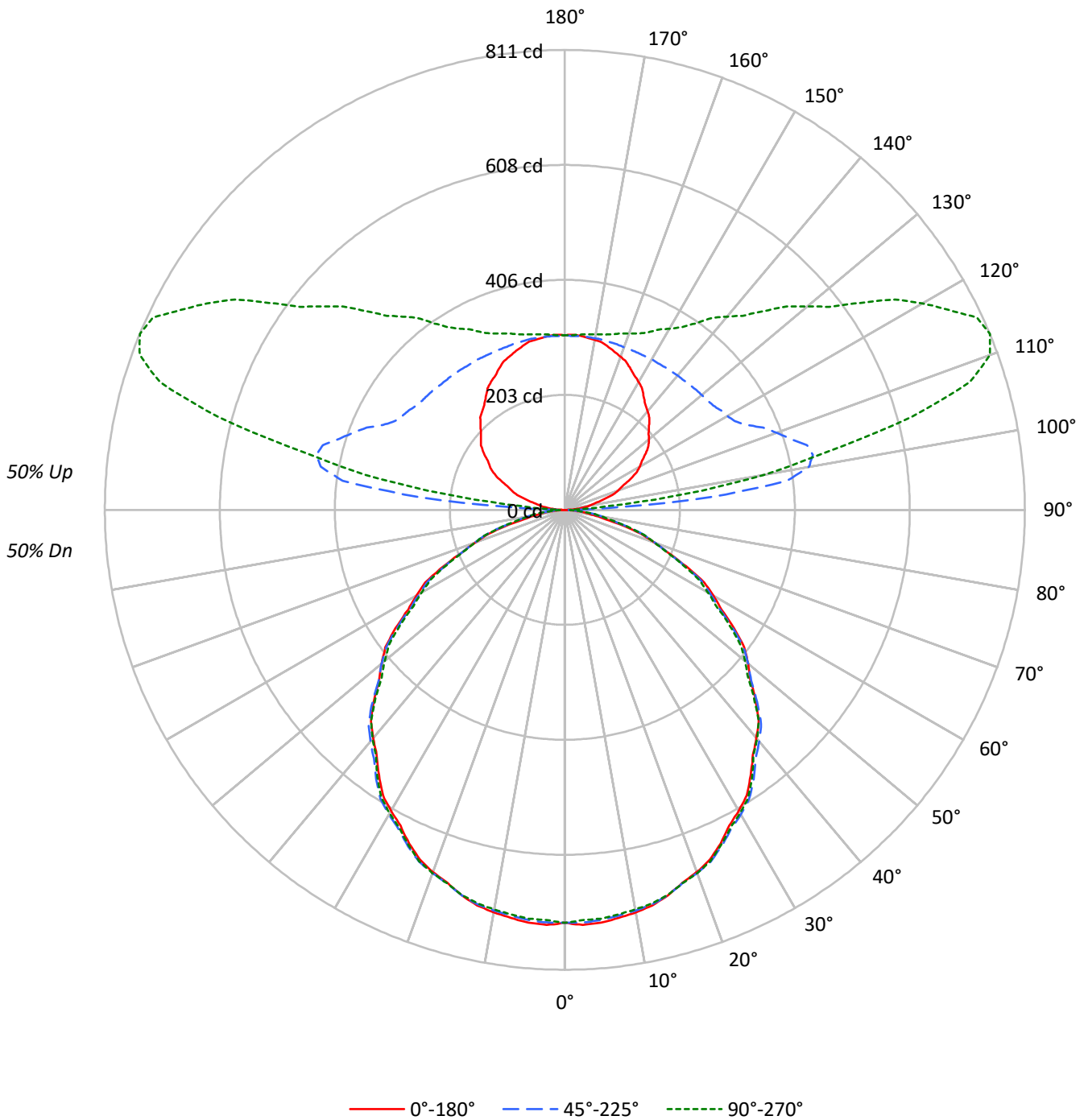
Lumens per Lamp: N/A
Luminaire Lumens: 4000.9 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 28.5
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: P562610
CATALOG NUMBER: SQ4-PC3-050U-050D-840-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P562610

CATALOG NUMBER: SQ4-PC3-050U-050D-840-1D-UNV-STD-W-4

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°	6719	6719	6719
5°	6770	6727	6702
10°	6754	6722	6703
15°	6719	6719	6712
20°	6674	6694	6694
25°	6611	6660	6638
30°	6531	6609	6581
35°	6433	6533	6486
40°	6327	6417	6352
45°	6212	6256	6160
50°	6050	6050	5952
55°	5858	5781	5696
60°	5574	5464	5375
65°	5152	5050	5006
70°	4510	4548	4529
75°	3629	4014	4039
80°	2582	3406	3438
85°	1567	2858	2858



TEST NUMBER: P562610

CATALOG NUMBER: SQ4-PC3-050U-050D-840-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	1.7
10°-20°	197.8	4.9
20°-30°	299.6	7.5
30°-40°	359.1	9.0
40°-50°	366.2	9.2
50°-60°	319.7	8.0
60°-70°	228.8	5.7
70°-80°	117.9	2.9
80°-90°	31.0	0.8
90°-100°	147.9	3.7
100°-110°	401.8	10.0
110°-120°	413.2	10.3
120°-130°	330.3	8.3
130°-140°	259.5	6.5
140°-150°	199.0	5.0
150°-160°	143.1	3.6
160°-170°	87.5	2.2
170°-180°	29.5	0.7
0°-30°	566.3	14.2
0°-40°	925.4	23.1
0°-60°	1611.3	40.3
0°-90°	1988.9	49.7
90°-120°	962.9	24.1
90°-150°	1751.8	43.8
90°-180°	2012.0	50.3
0°-180°	4000.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	728	728	728	728	728	
5°	731	724	726	724	724	69
15°	703	697	703	703	703	198
25°	649	645	654	652	652	299
35°	571	570	580	576	576	357
45°	476	475	480	473	472	366
55°	364	360	359	354	354	325
65°	236	231	231	229	229	233
75°	102	106	113	113	113	110
85°	15	23	27	28	27	20
90°	1	4	7	9	9	2
95°	22	81	258	112	75	23
105°	71	111	442	673	633	76
115°	127	154	354	704	802	125
125°	174	199	320	539	636	155
135°	210	233	311	439	495	162
145°	243	260	307	373	401	152
155°	274	284	305	335	345	127
165°	297	301	306	319	320	84
175°	308	309	307	311	310	29
180°	308	308	308	308	308	

TEST NUMBER: P562610

CATALOG NUMBER: SQ4-PC3-050U-050D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	728.3	728.3	728.3	728.3	728.3
2.5°	732.7	726.3	728.3	726.7	724.0
5°	731.0	723.8	726.3	724.3	723.6
7.5°	725.8	718.5	721.9	720.5	719.8
10°	720.9	713.7	717.5	716.2	715.5
12.5°	714.4	707.7	712.1	710.8	710.7
15°	703.4	697.4	703.4	703.4	702.7
17.5°	689.5	684.1	690.4	690.8	690.4
20°	679.8	673.8	681.8	681.1	681.8
22.5°	667.9	663.0	671.6	669.8	670.5
25°	649.4	644.8	654.2	652.1	652.1
27.5°	627.6	624.3	634.5	632.3	632.3
30°	613.0	609.7	620.4	617.7	617.7
32.5°	596.8	594.6	604.8	601.6	601.6
35°	571.2	569.9	580.0	575.9	575.9
37.5°	544.8	543.6	552.7	547.8	546.3
40°	525.3	524.7	532.8	527.4	527.4
42.5°	505.9	505.3	512.3	505.8	505.8
45°	476.1	474.8	479.5	473.4	472.1
47.5°	443.6	442.3	445.2	438.6	437.9
50°	421.5	420.2	421.5	415.4	414.7
52.5°	398.8	396.5	396.7	390.6	390.5
55°	364.2	359.6	359.4	354.1	354.1
57.5°	327.5	321.4	322.0	317.4	316.7
60°	302.1	295.5	296.1	292.0	291.3
62.5°	277.3	269.7	271.2	266.6	266.5
65°	236.0	230.8	231.3	229.3	229.3
67.5°	196.4	191.5	195.0	193.4	193.3
70°	167.2	164.0	168.6	168.6	167.9
72.5°	140.3	140.1	145.9	145.9	146.3
75°	101.8	106.4	112.6	113.3	113.3
77.5°	68.0	76.2	82.9	83.2	83.1
80°	48.6	57.8	64.1	65.4	64.7
82.5°	32.9	42.7	47.9	49.2	48.6
85°	14.8	22.7	27.0	27.6	27.0
87.5°	4.5	9.8	12.2	12.5	11.5
90°	1.0	3.9	6.9	8.9	8.9
92.5°	8.9	40.5	70.3	30.2	25.6
95°	21.8	80.9	257.6	112.1	75.3
97.5°	36.1	89.3	394.9	307.3	215.8
100°	45.6	95.0	437.0	442.9	357.7
102.5°	55.1	100.6	448.0	547.8	472.6
105°	71.3	111.1	441.9	672.9	633.1
107.5°	88.2	123.3	416.3	737.4	748.5
110°	100.1	132.0	397.3	750.1	797.6



TEST NUMBER: P562610

CATALOG NUMBER: SQ4-PC3-050U-050D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	110.4	140.8	378.3	739.6	811.1
115°	126.8	154.0	353.7	703.7	801.6
117.5°	142.3	168.2	338.1	652.9	763.1
120°	152.6	177.8	330.9	618.8	728.3
122.5°	161.3	186.5	326.2	584.6	690.2
125°	174.4	198.6	320.0	539.2	636.1
127.5°	186.1	210.1	316.7	504.8	588.0
130°	193.2	216.5	315.1	483.2	557.8
132.5°	200.3	223.6	313.5	464.8	530.9
135°	210.1	233.3	311.1	439.2	495.4
137.5°	220.6	241.7	309.9	416.6	463.9
140°	226.9	247.2	309.1	402.2	444.9
142.5°	233.2	252.0	308.3	391.0	426.6
145°	242.8	260.2	307.2	373.2	401.3
147.5°	253.5	268.4	306.2	359.2	381.3
150°	260.6	273.2	306.2	351.1	368.6
152.5°	266.1	277.2	305.4	343.9	358.3
155°	274.5	284.1	305.2	335.1	344.8
157.5°	282.6	290.1	305.2	329.1	336.5
160°	287.3	294.1	305.2	325.1	330.9
162.5°	292.1	297.3	306.0	321.9	326.2
165°	297.2	301.1	306.2	319.1	320.0
167.5°	302.6	304.5	307.2	315.7	316.5
170°	304.2	306.1	307.2	314.1	314.1
172.5°	305.8	306.9	307.2	312.5	312.5
175°	308.1	309.1	307.2	311.1	310.1
177.5°	308.9	308.9	306.6	309.7	308.1
180°	308.1	308.1	308.1	308.1	308.1

(END OF REPORT)