

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: P562898

Luminaire Tested: **SQ4-PC3-100U-050D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562898
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-4
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

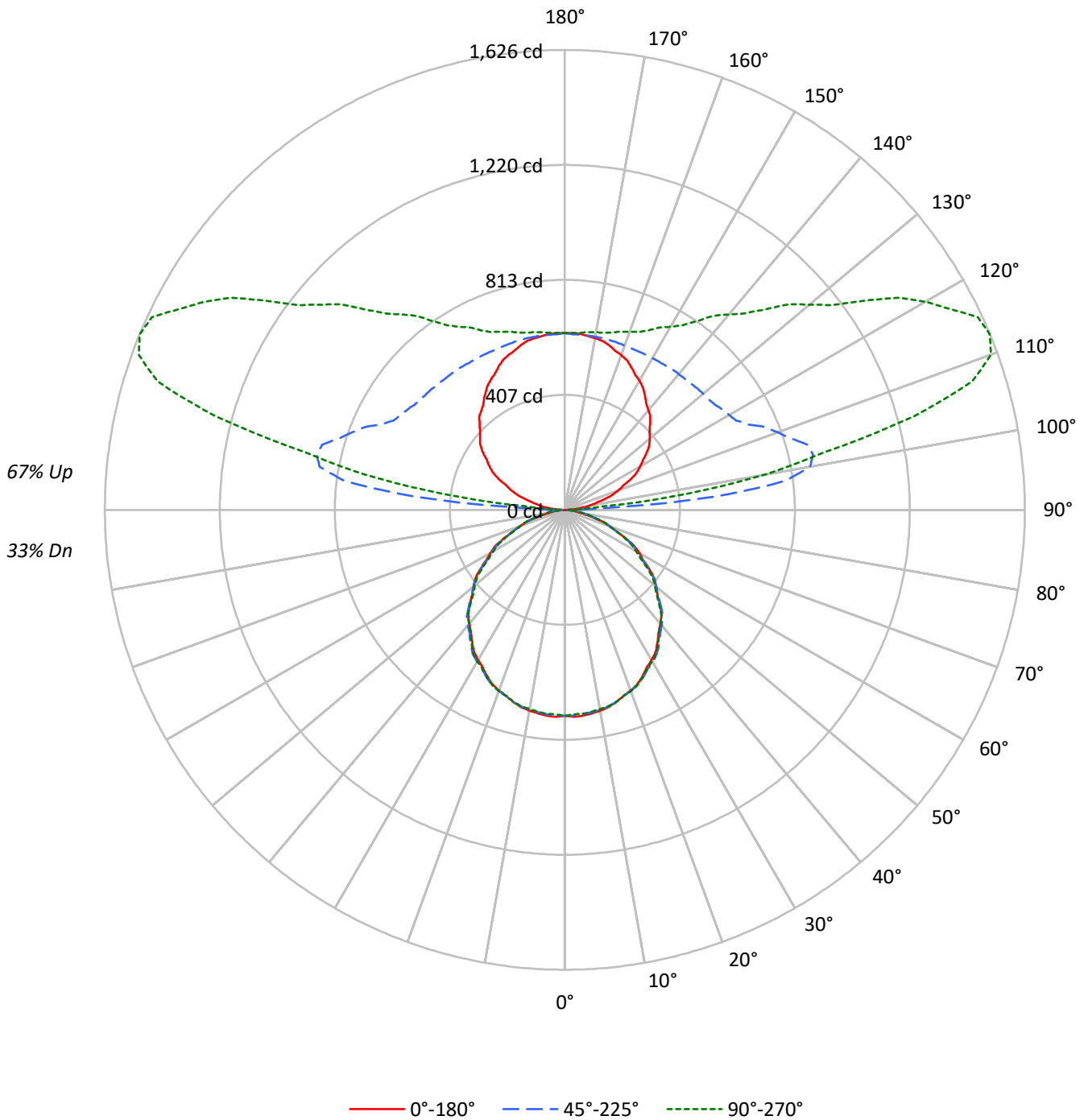
Lumens per Lamp: N/A
Luminaire Lumens: 6045.8 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 41.3
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°	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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	1.1
10°-20°	197.8	3.3
20°-30°	299.6	5.0
30°-40°	359.1	5.9
40°-50°	366.2	6.1
50°-60°	319.7	5.3
60°-70°	228.8	3.8
70°-80°	117.9	1.9
80°-90°	31.1	0.5
90°-100°	292.4	4.8
100°-110°	807.2	13.4
110°-120°	832.5	13.8
120°-130°	669.0	11.1
130°-140°	525.7	8.7
140°-150°	403.2	6.7
150°-160°	289.8	4.8
160°-170°	177.2	2.9
170°-180°	59.8	1.0
0°-30°	566.3	9.4
0°-40°	925.4	15.3
0°-60°	1611.3	26.7
0°-90°	1989.1	32.9
90°-120°	1932.1	32.0
90°-150°	3530.0	58.4
90°-180°	4057.0	67.1
0°-180°	6045.8	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°	2	4	8	9	10	4
95°	43	158	530	218	142	46
105°	144	222	888	1356	1277	153
115°	258	312	715	1416	1610	253
125°	354	402	648	1097	1288	315
135°	426	472	630	889	1002	329
145°	494	528	622	756	814	309
155°	556	575	617	679	700	256
165°	602	610	620	644	649	170
175°	624	625	621	630	628	59
180°	624	624	624	624	624	

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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°	4.7	9.9	12.4	12.6	11.7
90°	2.0	4.0	8.0	9.0	10.0
92.5°	18.0	74.6	133.5	48.7	38.0
95°	43.0	158.2	530.5	218.0	141.9
97.5°	71.1	177.2	785.8	605.0	438.1
100°	91.9	188.6	880.1	886.3	720.3
102.5°	111.9	201.6	898.5	1095.1	937.6
105°	143.9	222.0	888.1	1355.8	1276.7
107.5°	177.8	247.4	838.5	1481.5	1510.4
110°	201.8	264.3	800.2	1508.6	1602.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	223.4	283.5	764.2	1487.2	1625.5
115°	257.7	311.5	715.3	1416.0	1610.3
117.5°	287.7	341.2	683.1	1315.7	1536.8
120°	307.7	360.4	670.3	1247.8	1470.5
122.5°	326.9	377.3	659.9	1184.4	1395.4
125°	353.6	402.5	648.3	1097.2	1287.7
127.5°	376.4	425.2	641.5	1023.5	1187.8
130°	391.6	440.4	638.3	978.4	1127.8
132.5°	406.0	452.5	635.1	940.5	1075.9
135°	425.6	471.5	630.3	888.7	1002.0
137.5°	447.5	489.3	628.0	845.1	941.8
140°	459.5	500.5	626.4	816.1	901.1
142.5°	473.1	511.0	624.8	790.3	865.1
145°	493.5	527.7	622.4	756.5	814.2
147.5°	513.1	543.0	620.2	728.1	772.8
150°	527.5	551.9	619.4	711.1	747.2
152.5°	538.6	561.5	618.6	696.6	726.4
155°	556.4	575.0	617.4	678.8	700.3
157.5°	572.8	587.1	617.6	665.8	680.5
160°	582.4	595.1	618.4	658.6	669.3
162.5°	590.4	601.5	619.2	652.1	660.5
165°	602.4	610.2	620.4	644.4	649.3
167.5°	611.6	616.3	621.4	639.8	641.3
170°	616.4	620.3	621.4	637.3	637.3
172.5°	620.4	622.7	621.4	634.1	633.3
175°	624.4	625.3	621.4	630.3	628.4
177.5°	626.0	625.2	621.2	626.7	625.2
180°	624.4	624.4	624.4	624.4	624.4

(END OF REPORT)