

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: P563570

Luminaire Tested: **SQ4-PP3-100U-050D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563570
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PP3-100U-050D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

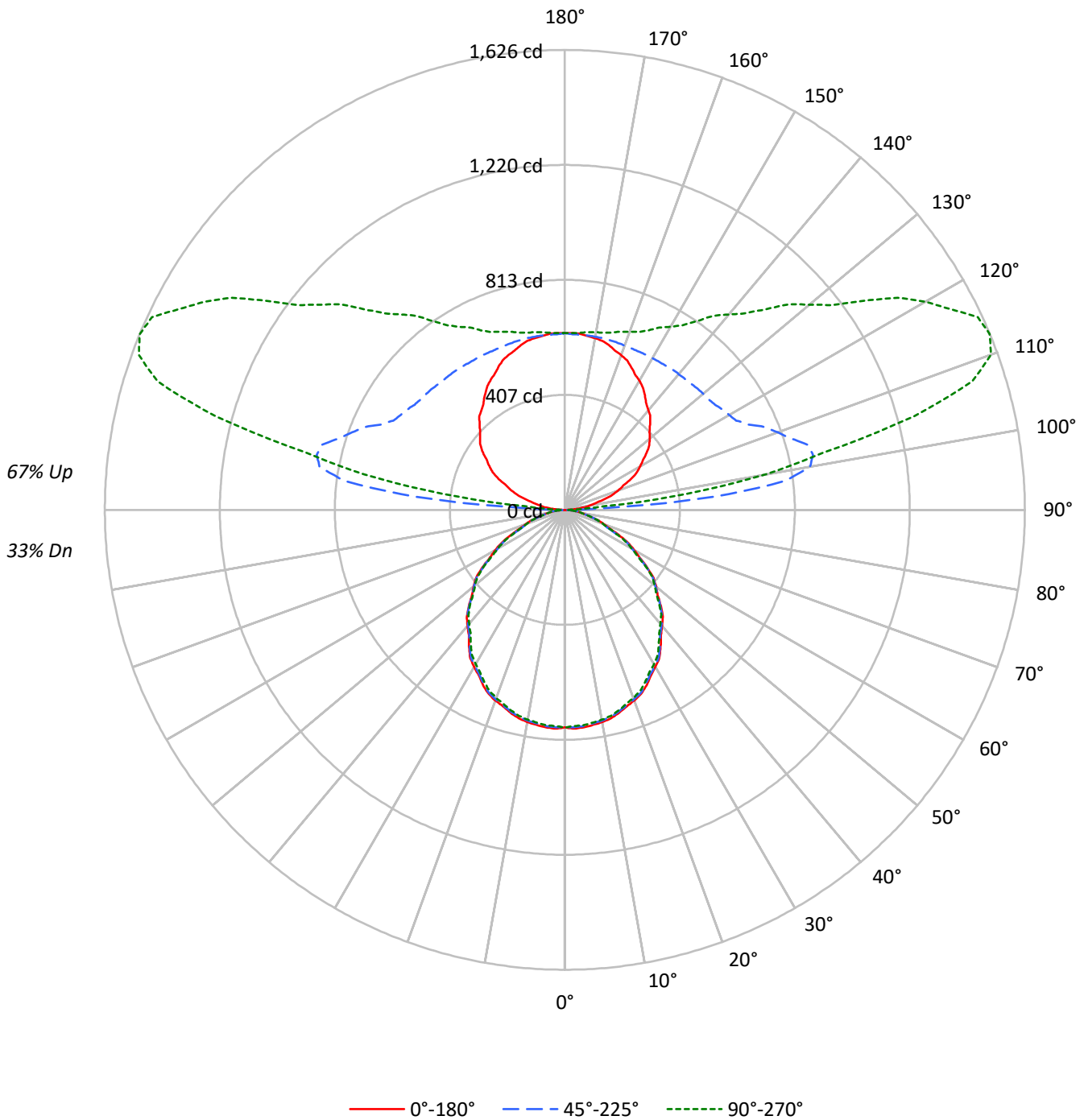
Lumens per Lamp: N/A
Luminaire Lumens: 6027.0 lumens
Efficiency: N/A
Efficacy: 145.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	79	73	68	77	71	66	62	57	53	50	44	41	39	32	30	29	23
3	78	69	62	56	70	63	57	52	50	46	42	39	36	33	28	26	25	20
4	71	61	53	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17
5	66	54	47	41	59	49	43	37	40	35	31	31	27	25	23	20	19	15
6	60	49	41	35	54	44	37	32	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	15	12
8	52	40	32	27	46	36	30	25	29	24	21	23	20	17	17	15	13	10
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	13	12	9
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	15	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7098	7098	7098
5°	7150	7106	7081
10°	7138	7087	7055
15°	7090	7052	7013
20°	7044	7003	6950
25°	6960	6911	6843
30°	6831	6795	6709
35°	6652	6607	6524
40°	6440	6399	6325
45°	6263	6220	6159
50°	6038	6000	5942
55°	5726	5651	5607
60°	5213	5063	5039
65°	4593	4401	4386
70°	3965	3801	3801
75°	3411	3365	3315
80°	3007	3044	2975
85°	2350	2572	2572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	1.2
10°-20°	207.7	3.4
20°-30°	311.1	5.2
30°-40°	364.9	6.1
40°-50°	366.1	6.1
50°-60°	312.3	5.2
60°-70°	203.7	3.4
70°-80°	102.2	1.7
80°-90°	29.6	0.5
90°-100°	292.4	4.9
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°	591.6	9.8
0°-40°	956.5	15.9
0°-60°	1634.8	27.1
0°-90°	1970.2	32.7
90°-120°	1932.1	32.1
90°-150°	3530.0	58.6
90°-180°	4057.0	67.3
0°-180°	6027.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	772	765	767	765	765	73
15°	742	735	738	736	734	209
25°	684	676	679	673	672	314
35°	591	585	587	580	579	369
45°	480	477	477	472	472	370
55°	356	355	351	349	349	316
65°	210	206	202	200	201	210
75°	96	96	94	94	93	104
85°	22	24	24	24	24	26
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°	769.3	769.3	769.3	769.3	769.3
2.5°	774.1	767.8	769.3	768.1	765.0
5°	772.0	764.7	767.3	764.6	764.6
7.5°	766.7	758.8	761.3	758.6	758.5
10°	761.9	754.0	756.5	753.8	753.1
12.5°	754.9	747.0	750.0	746.8	746.6
15°	742.3	735.1	738.3	735.5	734.2
17.5°	728.2	720.3	724.1	720.3	719.8
20°	717.4	709.5	713.3	707.9	707.9
22.5°	704.4	696.5	700.9	693.9	693.9
25°	683.7	675.8	678.9	672.9	672.2
27.5°	659.0	651.2	654.5	647.7	647.5
30°	641.2	633.9	637.8	630.4	629.7
32.5°	621.8	615.0	617.9	610.4	609.8
35°	590.6	584.7	586.6	579.8	579.2
37.5°	557.9	551.8	553.9	548.1	547.9
40°	534.7	530.7	531.3	526.5	525.2
42.5°	513.1	508.6	509.2	504.4	504.2
45°	480.0	476.8	476.7	472.0	472.0
47.5°	445.0	442.5	441.8	437.8	437.7
50°	420.7	418.7	418.0	414.6	414.0
52.5°	395.4	394.4	392.1	389.3	389.2
55°	356.0	354.7	351.3	349.2	348.6
57.5°	313.2	310.6	306.8	303.8	304.3
60°	282.5	279.9	274.4	273.1	273.1
62.5°	252.8	249.7	244.2	242.3	243.4
65°	210.4	206.4	201.6	200.3	200.9
67.5°	171.8	168.2	163.0	163.0	162.5
70°	147.0	145.0	140.9	140.9	140.9
72.5°	124.9	123.9	121.0	120.9	120.4
75°	95.7	95.7	94.4	93.7	93.0
77.5°	71.7	72.0	71.3	70.6	69.4
80°	56.6	58.0	57.3	56.6	56.0
82.5°	42.6	43.9	43.8	42.6	42.5
85°	22.2	24.2	24.3	24.3	24.3
87.5°	6.3	8.8	10.2	10.4	11.2
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)