

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: P562353

Luminaire Tested: **SQ4-PW1-100U-050D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562353
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-100U-050D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

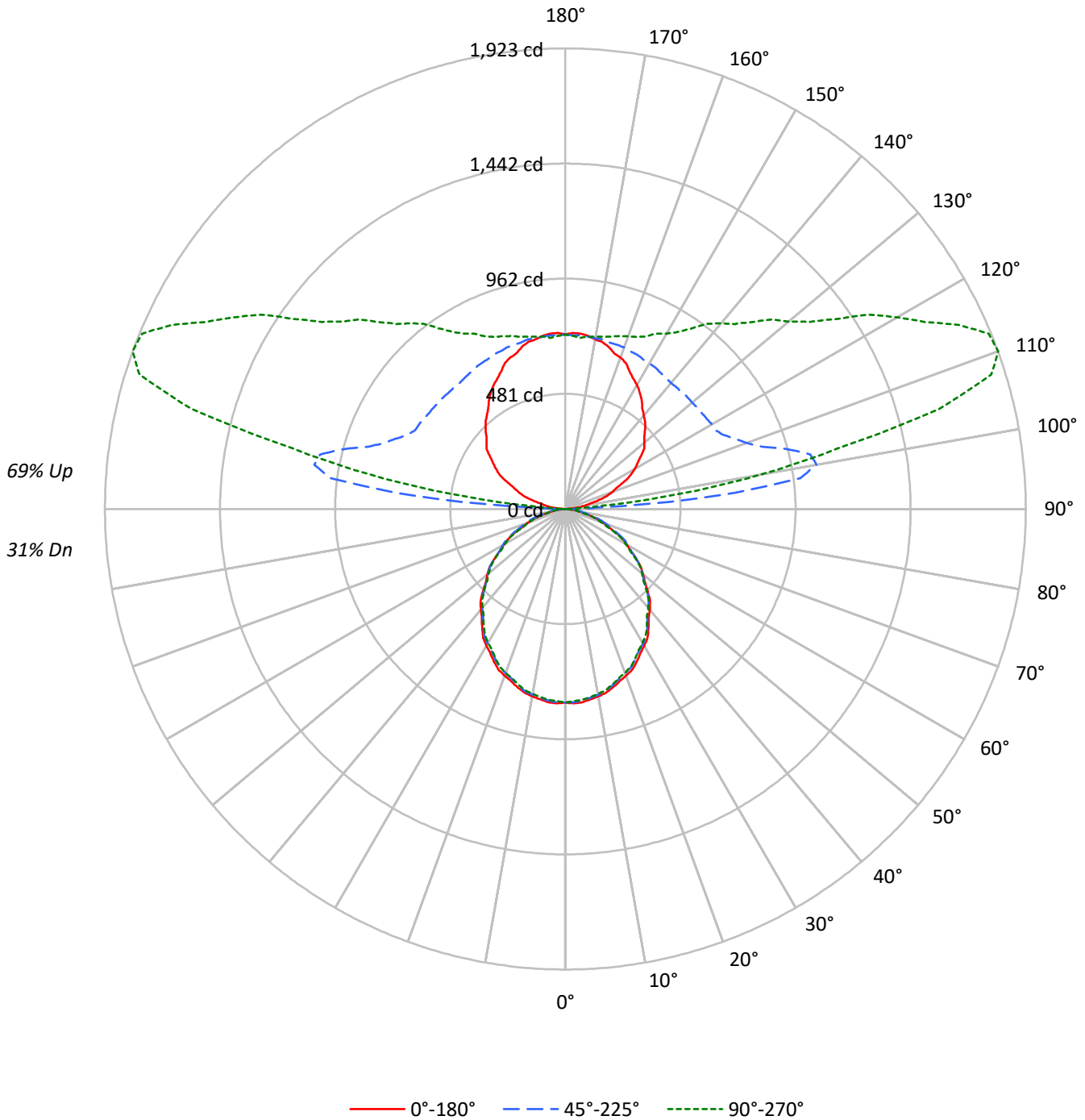
Lumens per Lamp: N/A
Luminaire Lumens: 6579.9 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 53.1
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	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	34	34	33	26
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	33	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16	12
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	22	19	16	16	14	12	10
9	48	36	29	24	43	33	26	22	26	22	18	21	17	15	15	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°	7454	7454	7454
5°	7502	7442	7410
10°	7442	7382	7342
15°	7363	7282	7254
20°	7275	7163	7150
25°	7174	7044	7021
30°	7022	6916	6870
35°	6823	6726	6687
40°	6610	6507	6481
45°	6353	6269	6241
50°	6089	6038	5997
55°	5805	5805	5714
60°	5451	5556	5359
65°	4988	5237	4864
70°	4397	4821	4281
75°	3754	4313	3654
80°	2912	3629	2949
85°	1884	2784	2488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	1.2
10°-20°	214.8	3.3
20°-30°	318.6	4.8
30°-40°	372.8	5.7
40°-50°	371.1	5.6
50°-60°	320.5	4.9
60°-70°	230.7	3.5
70°-80°	121.0	1.8
80°-90°	30.0	0.5
90°-100°	331.9	5.0
100°-110°	944.4	14.4
110°-120°	904.8	13.8
120°-130°	716.1	10.9
130°-140°	574.8	8.7
140°-150°	450.0	6.8
150°-160°	329.3	5.0
160°-170°	203.9	3.1
170°-180°	69.2	1.1
0°-30°	609.5	9.3
0°-40°	982.3	14.9
0°-60°	1673.9	25.4
0°-90°	2055.5	31.2
90°-120°	2181.1	33.1
90°-150°	3921.9	59.6
90°-180°	4524.0	68.8
0°-180°	6579.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	808	808	808	808	808	
5°	810	801	804	802	800	77
15°	771	761	762	761	760	217
25°	705	693	692	688	690	324
35°	606	597	597	592	594	379
45°	487	483	480	479	478	376
55°	361	360	361	356	355	322
65°	228	236	240	230	223	226
75°	105	115	121	113	102	113
85°	18	23	26	25	24	23
90°	0	0	0	0	0	2
95°	36	143	642	222	137	41
105°	147	223	962	1700	1616	155
115°	273	330	730	1546	1815	269
125°	385	427	696	1156	1382	345
135°	471	510	688	976	1104	363
145°	555	584	694	845	921	347
155°	634	649	710	764	795	293
165°	701	703	719	734	745	197
175°	734	730	727	723	717	70
180°	728	728	728	728	728	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	807.9	807.9	807.9	807.9	807.9
2.5°	812.5	805.8	807.9	806.1	802.2
5°	810.0	801.0	803.6	801.5	800.1
7.5°	801.8	793.4	795.4	793.1	792.2
10°	794.4	786.0	788.0	785.1	783.7
12.5°	785.8	776.9	778.9	776.0	775.2
15°	770.9	761.2	762.4	760.9	759.5
17.5°	753.5	743.6	743.8	741.6	741.3
20°	741.0	730.6	729.6	726.8	728.2
22.5°	727.3	716.3	715.4	711.4	713.4
25°	704.7	692.9	691.9	687.7	689.7
27.5°	678.5	666.8	666.8	660.9	663.1
30°	659.1	648.0	649.2	642.1	644.9
32.5°	638.6	628.6	629.2	622.2	625.0
35°	605.8	597.4	597.2	591.6	593.7
37.5°	572.2	564.8	563.6	560.4	560.9
40°	548.8	542.5	540.3	538.1	538.1
42.5°	524.3	518.6	516.3	514.8	514.2
45°	486.9	482.7	480.5	479.0	478.3
47.5°	449.9	446.0	444.0	443.0	442.3
50°	424.2	421.5	420.7	418.5	417.8
52.5°	398.6	396.9	396.2	393.5	392.8
55°	360.9	360.2	360.9	355.9	355.2
57.5°	321.6	322.7	325.0	318.3	316.6
60°	295.4	298.2	301.1	293.2	290.4
62.5°	268.6	273.1	277.2	268.1	264.2
65°	228.5	235.5	239.9	230.5	222.8
67.5°	189.8	198.4	203.7	193.6	184.9
70°	163.0	172.7	178.7	168.5	158.7
72.5°	139.7	150.5	155.3	145.7	136.0
75°	105.3	115.1	121.0	112.9	102.5
77.5°	74.7	83.9	88.8	81.8	73.2
80°	54.8	64.6	68.3	62.5	55.5
82.5°	38.9	46.9	49.5	46.0	41.3
85°	17.8	23.4	26.3	24.9	23.5
87.5°	4.6	8.5	10.8	10.8	11.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.1	58.7	136.3	39.7	29.9
95°	36.0	143.0	642.5	222.4	137.1
97.5°	66.2	167.5	989.5	708.1	485.2
100°	87.2	182.0	1064.8	1078.6	830.8
102.5°	110.5	197.7	1048.2	1380.6	1164.3
105°	146.8	222.6	962.4	1699.9	1616.0
107.5°	183.6	251.6	862.1	1789.9	1864.7
110°	209.1	272.7	804.5	1755.5	1923.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	233.5	293.8	765.7	1674.0	1913.4
115°	272.8	329.7	729.7	1545.9	1815.4
117.5°	307.4	360.8	708.4	1405.9	1691.3
120°	335.1	379.8	706.2	1325.8	1599.3
122.5°	357.3	401.9	700.7	1255.6	1509.6
125°	385.0	426.9	696.5	1155.8	1381.9
127.5°	415.1	454.4	694.3	1096.2	1282.5
130°	430.6	469.9	691.0	1054.7	1217.2
132.5°	447.3	485.4	691.0	1022.3	1171.7
135°	470.8	510.1	688.2	976.3	1103.6
137.5°	493.0	531.1	687.9	937.5	1047.4
140°	509.6	548.8	686.8	905.2	1010.8
142.5°	528.4	561.2	690.1	879.5	974.3
145°	555.3	583.7	693.7	845.0	920.8
147.5°	578.3	605.9	699.8	810.2	875.7
150°	598.2	617.2	702.0	798.6	844.7
152.5°	613.7	633.7	704.3	783.1	825.8
155°	634.2	649.1	710.4	763.7	794.8
157.5°	659.7	668.6	711.7	754.9	777.1
160°	673.0	679.7	717.3	748.2	767.1
162.5°	680.7	688.6	718.4	742.5	757.2
165°	700.7	703.4	718.7	734.1	745.0
167.5°	714.2	711.8	725.0	732.1	736.4
170°	718.7	717.3	722.8	724.3	729.7
172.5°	728.6	724.0	726.1	722.1	726.4
175°	733.9	729.8	727.0	722.7	717.3
177.5°	736.1	729.6	726.1	721.7	722.8
180°	728.4	728.4	728.4	728.4	728.4

(END OF REPORT)