

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: P562249

Luminaire Tested: **SQ4-PW1-075U-050D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562249
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-PW1-075U-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 750 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: 5436.3 lumens
Efficiency: N/A
Efficacy: 122.4 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

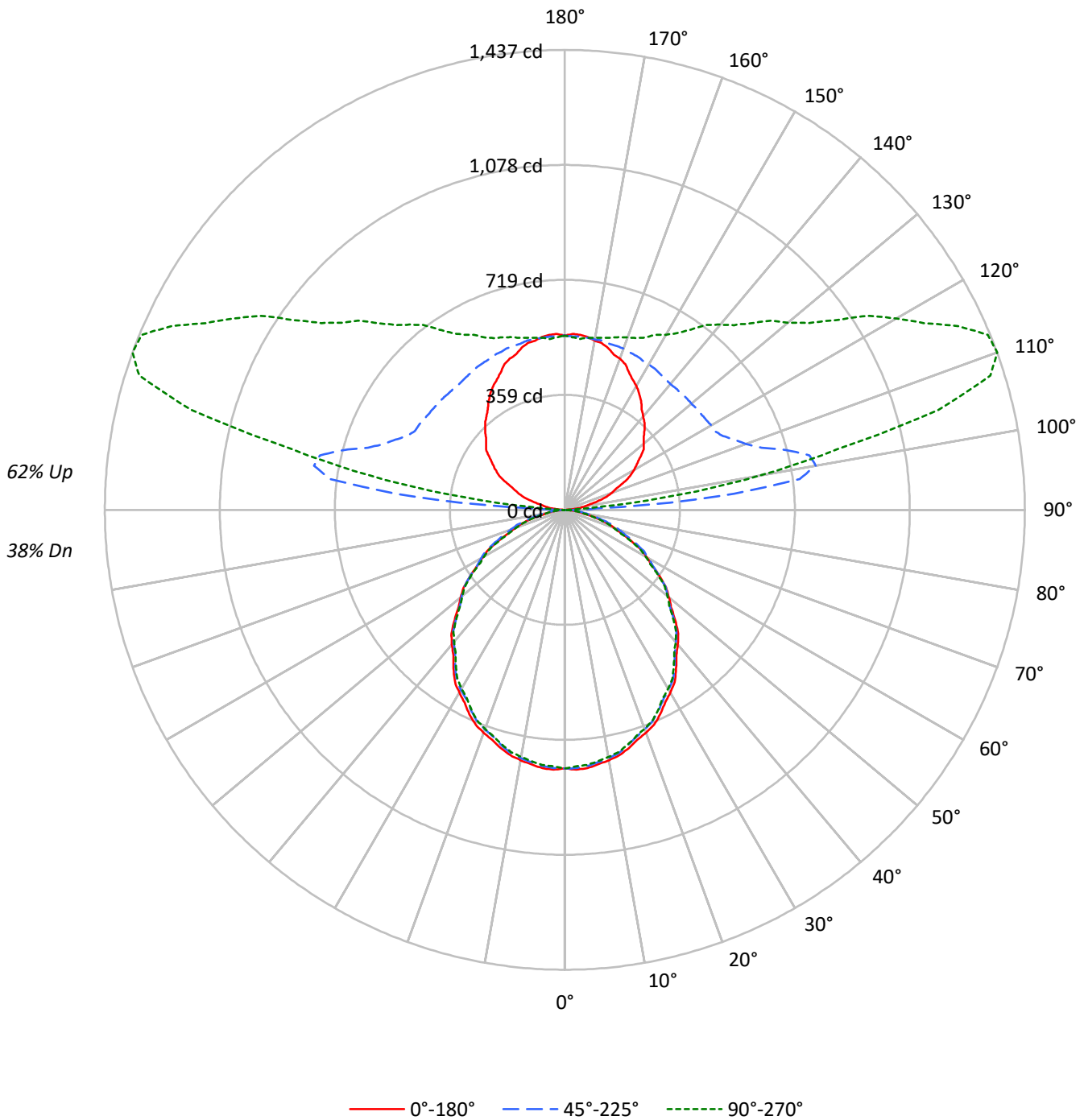
Input Watts (W): 44.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	77	67	65	63	53	51	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27
3	79	70	63	57	71	64	57	53	52	48	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	50	45	46	41	37	37	33	30	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	37	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13
8	52	40	33	27	47	37	30	26	31	25	22	25	21	18	19	16	14	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	33	26	22	41	31	25	20	26	21	17	21	17	15	16	14	12	10

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	1.4
10°-20°	214.8	4.0
20°-30°	318.6	5.9
30°-40°	372.8	6.9
40°-50°	371.1	6.8
50°-60°	320.5	5.9
60°-70°	230.7	4.2
70°-80°	121.0	2.2
80°-90°	30.0	0.6
90°-100°	248.0	4.6
100°-110°	705.7	13.0
110°-120°	676.1	12.4
120°-130°	535.1	9.8
130°-140°	429.5	7.9
140°-150°	336.2	6.2
150°-160°	246.0	4.5
160°-170°	152.4	2.8
170°-180°	51.7	1.0
0°-30°	609.5	11.2
0°-40°	982.3	18.1
0°-60°	1673.9	30.8
0°-90°	2055.5	37.8
90°-120°	1629.8	30.0
90°-150°	2930.6	53.9
90°-180°	3381.0	62.2
0°-180°	5436.3	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°	27	107	480	166	102	31
105°	110	166	719	1270	1208	116
115°	204	246	545	1155	1356	201
125°	288	319	520	864	1033	257
135°	352	381	514	730	825	271
145°	415	436	518	631	688	259
155°	474	485	531	571	594	219
165°	524	526	537	549	557	147
175°	548	545	543	540	536	52
180°	544	544	544	544	544	

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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°	8.3	43.9	101.8	29.6	22.3
95°	26.9	106.8	480.1	166.2	102.4
97.5°	49.5	125.1	739.4	529.1	362.6
100°	65.2	136.0	795.7	806.0	620.8
102.5°	82.6	147.7	783.3	1031.7	870.0
105°	109.7	166.3	719.1	1270.2	1207.5
107.5°	137.2	188.0	644.2	1337.5	1393.4
110°	156.2	203.8	601.2	1311.8	1437.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.5	219.6	572.2	1250.9	1429.8
115°	203.8	246.3	545.3	1155.2	1356.5
117.5°	229.7	269.6	529.4	1050.5	1263.8
120°	250.4	283.8	527.7	990.7	1195.1
122.5°	267.0	300.3	523.6	938.3	1128.1
125°	287.7	319.0	520.5	863.7	1032.7
127.5°	310.2	339.5	518.8	819.1	958.4
130°	321.8	351.1	516.3	788.1	909.5
132.5°	334.2	362.7	516.3	763.9	875.6
135°	351.8	381.1	514.3	729.6	824.7
137.5°	368.4	396.9	514.0	700.5	782.7
140°	380.8	410.1	513.2	676.4	755.3
142.5°	394.8	419.3	515.7	657.2	728.0
145°	414.9	436.2	518.4	631.4	688.1
147.5°	432.1	452.7	522.9	605.4	654.4
150°	447.0	461.2	524.6	596.8	631.2
152.5°	458.6	473.6	526.3	585.1	617.1
155°	473.9	485.0	530.8	570.7	593.9
157.5°	492.9	499.6	531.8	564.1	580.7
160°	502.9	507.9	536.0	559.1	573.2
162.5°	508.7	514.5	536.8	554.9	565.8
165°	523.6	525.6	537.0	548.6	556.7
167.5°	533.7	531.9	541.8	547.0	550.3
170°	537.0	536.0	540.1	541.3	545.3
172.5°	544.5	541.0	542.6	539.6	542.8
175°	548.4	545.4	543.2	540.0	536.0
177.5°	550.1	545.2	542.6	539.3	540.1
180°	544.3	544.3	544.3	544.3	544.3

(END OF REPORT)