

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: P561882

Luminaire Tested: **SQ4-PR1-075U-050D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561882
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-075U-050D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5140.6 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

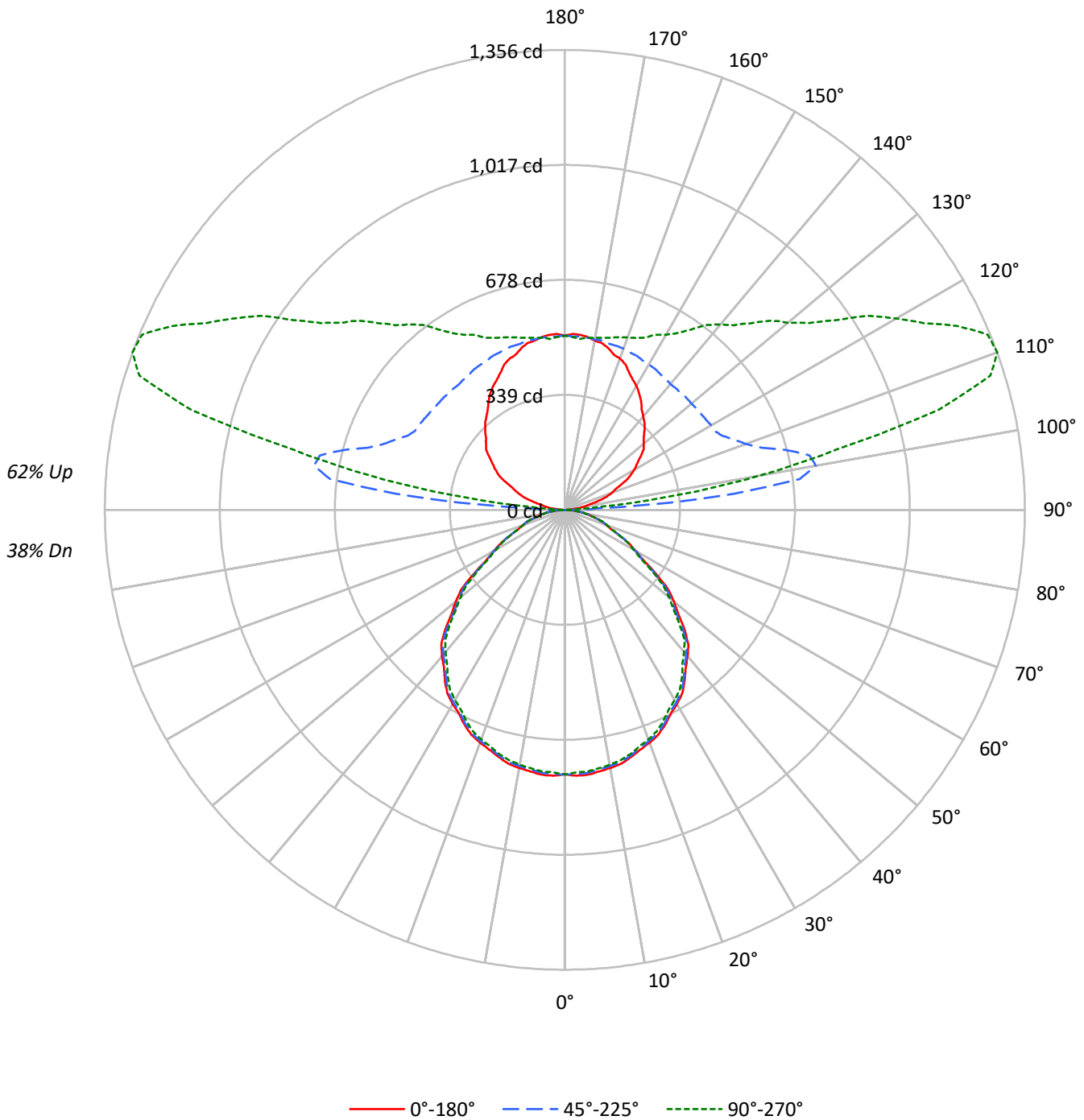
Input Watts (W): 44.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	80	77	67	65	63	53	52	50	40	39	38	32
2	87	80	74	69	79	73	68	63	59	56	53	47	45	42	36	34	33	27
3	79	70	63	58	72	64	58	53	52	48	45	42	39	36	32	30	28	24
4	73	62	55	49	66	57	50	45	47	42	38	37	34	31	28	26	24	20
5	67	55	48	42	60	51	44	39	42	37	33	33	30	27	26	23	21	18
6	61	50	42	36	56	46	39	34	38	32	29	30	26	24	23	21	19	16
7	57	45	37	32	51	41	34	30	34	29	25	27	24	21	21	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	12
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7196	7196	7196
5°	7261	7205	7167
10°	7238	7188	7150
15°	7206	7161	7123
20°	7170	7124	7071
25°	7120	7071	6990
30°	7043	6993	6892
35°	6938	6878	6779
40°	6781	6707	6587
45°	6504	6390	6259
50°	6017	5872	5757
55°	5252	5133	5025
60°	4425	4388	4301
65°	3827	3842	3814
70°	3515	3534	3534
75°	3376	3376	3401
80°	3177	3214	3177
85°	2562	2848	2848



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	1.4
10°-20°	211.0	4.1
20°-30°	318.3	6.2
30°-40°	379.2	7.4
40°-50°	373.9	7.3
50°-60°	285.8	5.6
60°-70°	176.8	3.4
70°-80°	100.4	2.0
80°-90°	30.6	0.6
90°-100°	234.1	4.6
100°-110°	666.0	13.0
110°-120°	638.1	12.4
120°-130°	505.0	9.8
130°-140°	405.4	7.9
140°-150°	317.4	6.2
150°-160°	232.2	4.5
160°-170°	143.8	2.8
170°-180°	48.8	0.9
0°-30°	603.1	11.7
0°-40°	982.3	19.1
0°-60°	1642.0	31.9
0°-90°	1949.8	37.9
90°-120°	1538.2	29.9
90°-150°	2766.0	53.8
90°-180°	3191.0	62.1
0°-180°	5140.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	780	780	780	780	780	
5°	784	776	778	775	774	74
15°	754	747	750	747	746	213
25°	699	691	695	687	687	322
35°	616	609	611	603	602	384
45°	498	492	490	481	480	382
55°	326	321	319	314	312	293
65°	175	174	176	175	175	178
75°	95	95	95	95	95	100
85°	24	26	27	27	27	28
90°	0	0	0	0	0	2
95°	25	101	453	157	97	29
105°	104	157	679	1199	1140	110
115°	192	232	515	1090	1280	189
125°	272	301	491	815	975	243
135°	332	360	485	689	778	256
145°	392	412	489	596	649	245
155°	447	458	501	539	560	207
165°	494	496	507	518	525	139
175°	518	515	513	510	506	49
180°	514	514	514	514	514	

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CATALOG NUMBER: SQ4-PR1-075U-050D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	780.0	780.0	780.0	780.0	780.0
2.5°	784.8	778.0	780.0	778.3	774.6
5°	784.0	775.5	778.0	775.2	773.9
7.5°	778.0	769.5	772.0	769.3	768.5
10°	772.6	764.7	767.2	764.5	763.2
12.5°	766.7	758.3	761.3	758.0	756.7
15°	754.4	746.6	749.7	747.0	745.7
17.5°	741.0	732.6	735.8	732.6	730.9
20°	730.3	722.4	725.6	720.8	720.2
22.5°	718.4	710.5	713.7	707.4	707.3
25°	699.4	690.8	694.6	687.2	686.6
27.5°	676.6	668.8	671.9	664.4	663.6
30°	661.1	653.2	656.4	648.3	646.9
32.5°	643.3	636.0	638.6	630.5	629.8
35°	616.0	608.8	610.7	602.6	601.9
37.5°	585.0	578.4	579.5	570.6	570.0
40°	563.0	556.4	556.9	547.5	546.9
42.5°	538.8	532.2	531.7	522.2	521.6
45°	498.5	491.9	489.7	481.0	479.7
47.5°	452.5	446.0	441.9	434.8	433.9
50°	419.2	412.6	409.1	403.0	401.1
52.5°	383.2	376.6	373.7	368.1	366.1
55°	326.5	321.2	319.1	313.7	312.4
57.5°	272.6	269.1	268.5	263.2	262.7
60°	239.8	237.9	237.8	233.1	233.1
62.5°	211.9	210.4	211.5	208.4	207.9
65°	175.3	174.0	176.0	174.7	174.7
67.5°	146.5	146.5	147.7	147.1	147.1
70°	130.3	130.3	131.0	131.0	131.0
72.5°	115.8	115.3	117.0	117.0	116.5
75°	94.7	94.7	94.7	95.4	95.4
77.5°	73.8	73.9	74.4	74.3	73.8
80°	59.8	60.4	60.5	59.8	59.8
82.5°	45.8	46.5	46.5	46.3	45.8
85°	24.2	25.5	26.9	26.9	26.9
87.5°	7.0	9.1	10.7	10.7	10.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	7.8	41.4	96.1	28.0	21.1
95°	25.4	100.8	453.1	156.8	96.7
97.5°	46.7	118.1	697.9	499.4	342.2
100°	61.5	128.4	751.0	760.7	585.9
102.5°	77.9	139.4	739.3	973.7	821.1
105°	103.5	157.0	678.7	1198.9	1139.7
107.5°	129.5	177.4	608.0	1262.3	1315.0
110°	147.5	192.3	567.4	1238.0	1356.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	164.6	207.2	540.0	1180.6	1349.4
115°	192.4	232.5	514.7	1090.3	1280.3
117.5°	216.8	254.4	499.6	991.5	1192.8
120°	236.3	267.8	498.0	935.1	1127.9
122.5°	252.0	283.5	494.1	885.5	1064.7
125°	271.5	301.1	491.2	815.2	974.6
127.5°	292.8	320.5	489.7	773.1	904.5
130°	303.7	331.4	487.3	743.8	858.4
132.5°	315.4	342.4	487.3	721.0	826.4
135°	332.0	359.7	485.4	688.6	778.3
137.5°	347.7	374.6	485.2	661.1	738.7
140°	359.4	387.1	484.4	638.4	712.9
142.5°	372.7	395.8	486.7	620.3	687.1
145°	391.6	411.7	489.3	595.9	649.4
147.5°	407.8	427.3	493.6	571.4	617.6
150°	421.9	435.2	495.1	563.2	595.7
152.5°	432.8	446.9	496.7	552.3	582.4
155°	447.3	457.8	501.0	538.6	560.5
157.5°	465.2	471.5	502.0	532.4	548.0
160°	474.6	479.4	505.9	527.6	541.0
162.5°	480.1	485.6	506.6	523.7	534.0
165°	494.1	496.1	506.8	517.8	525.4
167.5°	503.7	502.0	511.3	516.3	519.3
170°	506.8	505.9	509.8	510.8	514.7
172.5°	513.9	510.6	512.1	509.3	512.3
175°	517.6	514.7	512.7	509.7	505.9
177.5°	519.1	514.6	512.1	509.0	509.8
180°	513.7	513.7	513.7	513.7	513.7

(END OF REPORT)