

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: P523625

Luminaire Tested: **SQ4-PP3-025U-050D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523625
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-050D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4186.2 lumens
Efficiency: N/A
Efficacy: 121.0 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: General Diffuse

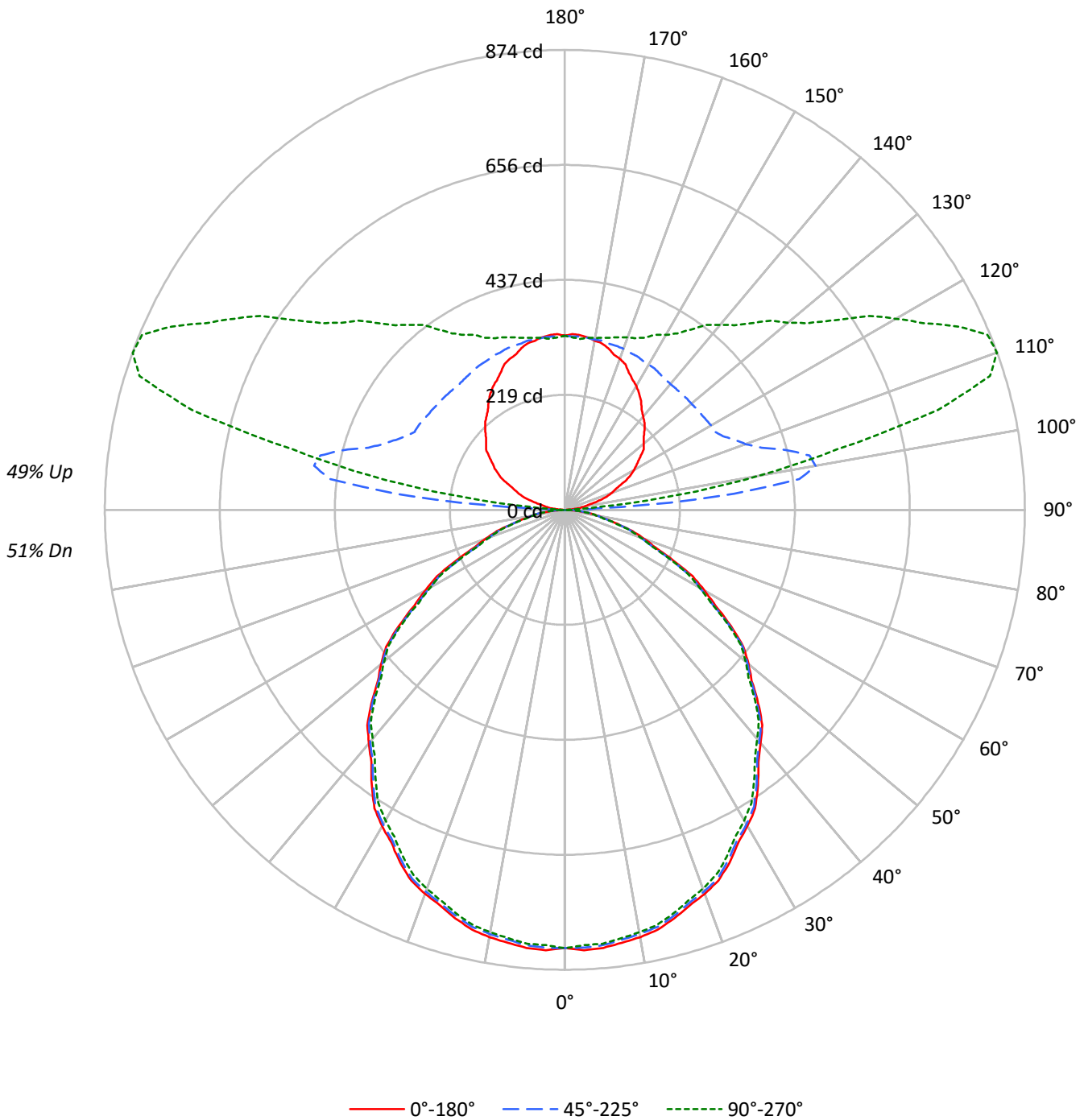
Input Watts (W): 34.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20					
RC	80				70				50				30					
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																		
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	90	87	91	87	84	81	74	71	69	62	60	59	51	50	49	43
2	90	82	76	71	83	76	71	67	65	61	58	54	52	49	45	43	41	37
3	82	72	65	59	75	67	61	56	57	53	49	48	45	42	40	37	35	31
4	75	64	56	50	69	60	53	47	51	46	42	43	39	36	36	33	30	27
5	69	57	49	43	63	53	46	41	46	40	36	39	34	31	32	29	27	23
6	63	51	43	37	58	48	41	35	41	36	31	35	31	27	29	26	23	21
7	59	46	38	33	54	43	36	31	37	32	28	32	27	24	27	23	21	18
8	54	42	34	29	50	39	32	28	34	29	25	29	25	22	24	21	19	16
9	51	38	31	26	47	36	29	25	31	26	22	27	22	19	23	19	17	15
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	21	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7683	7683	7683
5°	7739	7692	7665
10°	7725	7671	7637
15°	7675	7633	7591
20°	7624	7581	7524
25°	7533	7481	7407
30°	7394	7355	7261
35°	7201	7151	7061
40°	6970	6926	6847
45°	6780	6731	6665
50°	6537	6495	6432
55°	6198	6116	6069
60°	5643	5480	5455
65°	4971	4764	4748
70°	4292	4114	4114
75°	3693	3643	3590
80°	3257	3294	3220
85°	2551	2784	2784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	1.9
10°-20°	224.8	5.4
20°-30°	336.8	8.0
30°-40°	395.0	9.4
40°-50°	396.2	9.5
50°-60°	338.0	8.1
60°-70°	220.4	5.3
70°-80°	110.6	2.6
80°-90°	30.6	0.7
90°-100°	150.8	3.6
100°-110°	428.9	10.2
110°-120°	411.0	9.8
120°-130°	325.3	7.8
130°-140°	261.1	6.2
140°-150°	204.4	4.9
150°-160°	149.6	3.6
160°-170°	92.6	2.2
170°-180°	31.4	0.8
0°-30°	640.3	15.3
0°-40°	1035.3	24.7
0°-60°	1769.5	42.3
0°-90°	2131.1	50.9
90°-120°	990.7	23.7
90°-150°	1781.4	42.6
90°-180°	2055.0	49.1
0°-180°	4186.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	833	833	833	833	833	
5°	836	828	830	828	828	79
15°	804	796	799	796	795	227
25°	740	731	735	728	728	340
35°	639	633	635	628	627	399
45°	520	516	516	511	511	400
55°	385	384	380	378	377	342
65°	228	223	218	217	218	227
75°	104	104	102	101	101	112
85°	24	26	26	26	26	28
90°	0	0	0	0	0	2
95°	16	65	292	101	62	19
105°	67	101	437	772	734	71
115°	124	150	332	702	825	122
125°	175	194	316	525	628	157
135°	214	232	313	444	501	165
145°	252	265	315	384	418	158
155°	288	295	323	347	361	133
165°	318	320	326	334	338	90
175°	333	332	330	328	326	32
180°	331	331	331	331	331	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	832.7	832.7	832.7	832.7	832.7
2.5°	837.9	831.1	832.7	831.4	828.0
5°	835.6	827.7	830.5	827.6	827.6
7.5°	829.9	821.3	824.1	821.1	821.0
10°	824.6	816.1	818.8	815.9	815.2
12.5°	817.0	808.5	811.8	808.3	808.1
15°	803.5	795.6	799.1	796.1	794.7
17.5°	788.1	779.6	783.8	779.7	779.1
20°	776.5	767.9	772.1	766.3	766.3
22.5°	762.5	753.9	758.7	751.1	751.1
25°	740.0	731.4	734.9	728.3	727.6
27.5°	713.3	704.9	708.5	701.0	700.9
30°	694.0	686.2	690.4	682.3	681.6
32.5°	673.0	665.7	668.8	660.7	660.0
35°	639.3	632.9	634.9	627.6	626.9
37.5°	603.8	597.2	599.6	593.3	593.0
40°	578.7	574.4	575.1	569.9	568.5
42.5°	555.4	550.5	551.1	546.0	545.7
45°	519.6	516.0	515.9	510.8	510.8
47.5°	481.6	478.9	478.1	473.9	473.8
50°	455.4	453.2	452.5	448.8	448.1
52.5°	427.9	426.9	424.4	421.4	421.2
55°	385.3	383.9	380.2	378.0	377.3
57.5°	339.1	336.2	332.0	328.8	329.4
60°	305.8	302.9	297.0	295.6	295.6
62.5°	273.7	270.2	264.3	262.3	263.4
65°	227.7	223.4	218.2	216.8	217.5
67.5°	185.9	182.1	176.5	176.4	175.9
70°	159.1	156.9	152.5	152.5	152.5
72.5°	135.2	134.2	130.9	130.9	130.3
75°	103.6	103.6	102.2	101.4	100.7
77.5°	77.6	77.9	77.2	76.5	75.2
80°	61.3	62.7	62.0	61.3	60.6
82.5°	46.1	47.5	47.4	46.1	46.0
85°	24.1	26.2	26.3	26.3	26.3
87.5°	6.4	8.7	9.3	9.4	9.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.0	26.7	61.9	18.0	13.6
95°	16.4	64.9	291.8	101.0	62.3
97.5°	30.1	76.1	449.5	321.6	220.4
100°	39.6	82.7	483.7	489.9	377.4
102.5°	50.2	89.8	476.1	627.1	528.8
105°	66.7	101.1	437.1	772.1	734.0
107.5°	83.4	114.3	391.6	813.0	847.0
110°	95.0	123.9	365.4	797.4	873.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	106.0	133.5	347.8	760.4	869.1
115°	123.9	149.7	331.5	702.2	824.6
117.5°	139.6	163.9	321.8	638.6	768.2
120°	152.2	172.5	320.8	602.2	726.4
122.5°	162.3	182.6	318.3	570.3	685.7
125°	174.8	193.9	316.4	525.0	627.7
127.5°	188.6	206.4	315.4	497.9	582.5
130°	195.6	213.4	313.8	479.1	552.9
132.5°	203.2	220.5	313.8	464.3	532.2
135°	213.8	231.7	312.6	443.5	501.3
137.5°	223.9	241.3	312.5	425.8	475.7
140°	231.5	249.3	312.0	411.2	459.1
142.5°	240.0	254.9	313.5	399.5	442.5
145°	252.2	265.1	315.1	383.8	418.3
147.5°	262.7	275.2	317.9	368.0	397.8
150°	271.7	280.3	318.9	362.8	383.7
152.5°	278.8	287.9	319.9	355.7	375.1
155°	288.1	294.8	322.7	346.9	361.0
157.5°	299.6	303.7	323.3	342.9	353.0
160°	305.7	308.7	325.8	339.8	348.4
162.5°	309.2	312.8	326.3	337.3	343.9
165°	318.3	319.5	326.4	333.5	338.4
167.5°	324.4	323.3	329.3	332.5	334.5
170°	326.4	325.8	328.3	329.0	331.5
172.5°	331.0	328.9	329.8	328.0	329.9
175°	333.3	331.5	330.2	328.3	325.8
177.5°	334.4	331.4	329.8	327.8	328.3
180°	330.8	330.8	330.8	330.8	330.8

(END OF REPORT)