

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: P523729

Luminaire Tested: **SQ4-PP3-075U-050D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523729
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-PP3-075U-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 750 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: 5598.0 lumens
Efficiency: N/A
Efficacy: 126.7 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

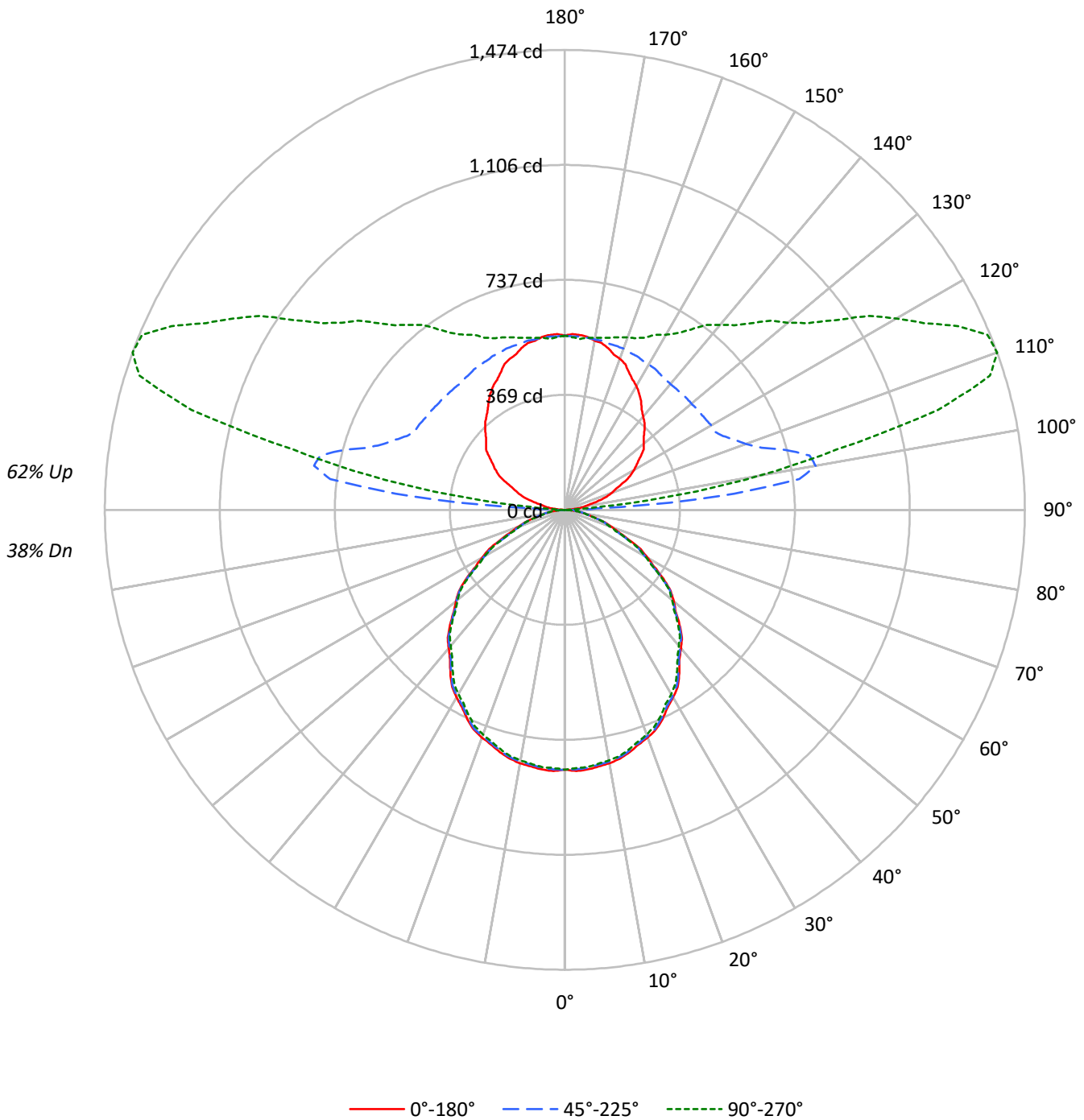
Input Watts (W): 44.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	44	42	35	34	33	27
3	79	70	63	57	72	64	58	53	52	48	44	42	38	36	32	30	28	23
4	72	62	54	48	66	57	50	45	46	42	38	37	34	31	28	26	24	20
5	66	55	47	41	60	50	44	38	42	36	32	33	30	27	25	23	21	17
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	57	45	37	31	51	41	34	29	34	29	25	27	23	21	21	18	16	14
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	17	15	12
9	49	37	29	25	44	34	27	23	28	23	20	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	20	26	21	18	21	17	15	16	14	12	10

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	1.4
10°-20°	224.8	4.0
20°-30°	336.8	6.0
30°-40°	395.0	7.1
40°-50°	396.2	7.1
50°-60°	338.0	6.0
60°-70°	220.4	3.9
70°-80°	110.6	2.0
80°-90°	30.6	0.5
90°-100°	254.3	4.5
100°-110°	723.6	12.9
110°-120°	693.3	12.4
120°-130°	548.7	9.8
130°-140°	440.5	7.9
140°-150°	344.8	6.2
150°-160°	252.3	4.5
160°-170°	156.3	2.8
170°-180°	53.0	0.9
0°-30°	640.3	11.4
0°-40°	1035.3	18.5
0°-60°	1769.5	31.6
0°-90°	2131.1	38.1
90°-120°	1671.3	29.9
90°-150°	3005.3	53.7
90°-180°	3467.0	61.9
0°-180°	5598.0	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°	28	110	492	170	105	32
105°	112	171	737	1303	1238	119
115°	209	253	559	1185	1391	206
125°	295	327	534	886	1059	264
135°	361	391	527	748	846	278
145°	426	447	532	648	706	266
155°	486	497	544	585	609	225
165°	537	539	551	563	571	151
175°	562	559	557	554	550	53
180°	558	558	558	558	558	

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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°	8.5	45.0	104.4	30.4	22.9
95°	27.6	109.5	492.3	170.4	105.0
97.5°	50.7	128.3	758.2	542.6	371.8
100°	66.8	139.5	816.0	826.5	636.6
102.5°	84.7	151.5	803.2	1057.9	892.1
105°	112.5	170.6	737.4	1302.6	1238.3
107.5°	140.7	192.8	660.6	1371.6	1428.8
110°	160.2	209.0	616.5	1345.2	1473.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	178.9	225.2	586.8	1282.8	1466.2
115°	209.0	252.6	559.2	1184.6	1391.1
117.5°	235.6	276.4	542.8	1077.3	1296.0
120°	256.8	291.0	541.1	1016.0	1225.5
122.5°	273.8	308.0	536.9	962.1	1156.8
125°	295.0	327.1	533.7	885.7	1058.9
127.5°	318.1	348.2	532.0	840.0	982.8
130°	330.0	360.1	529.5	808.2	932.7
132.5°	342.7	372.0	529.5	783.3	897.9
135°	360.8	390.9	527.4	748.1	845.7
137.5°	377.7	407.0	527.1	718.4	802.6
140°	390.5	420.6	526.3	693.7	774.6
142.5°	404.9	430.0	528.8	673.9	746.6
145°	425.5	447.3	531.6	647.5	705.6
147.5°	443.1	464.3	536.3	620.8	671.0
150°	458.4	472.9	538.0	612.0	647.3
152.5°	470.3	485.6	539.7	600.0	632.8
155°	486.0	497.4	544.3	585.2	609.1
157.5°	505.5	512.3	545.4	578.5	595.5
160°	515.7	520.9	549.6	573.3	587.8
162.5°	521.6	527.6	550.5	569.0	580.2
165°	536.9	539.0	550.7	562.6	570.9
167.5°	547.3	545.4	555.6	561.0	564.3
170°	550.7	549.7	553.9	555.0	559.2
172.5°	558.3	554.8	556.4	553.3	556.6
175°	562.4	559.3	557.1	553.8	549.6
177.5°	564.1	559.1	556.4	553.0	553.9
180°	558.1	558.1	558.1	558.1	558.1

(END OF REPORT)