

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: P562251

Luminaire Tested: **SQ4-PW1-075U-050D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562251
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 (5700K)
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 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5574.8 lumens
Efficiency: N/A
Efficacy: 126.1 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

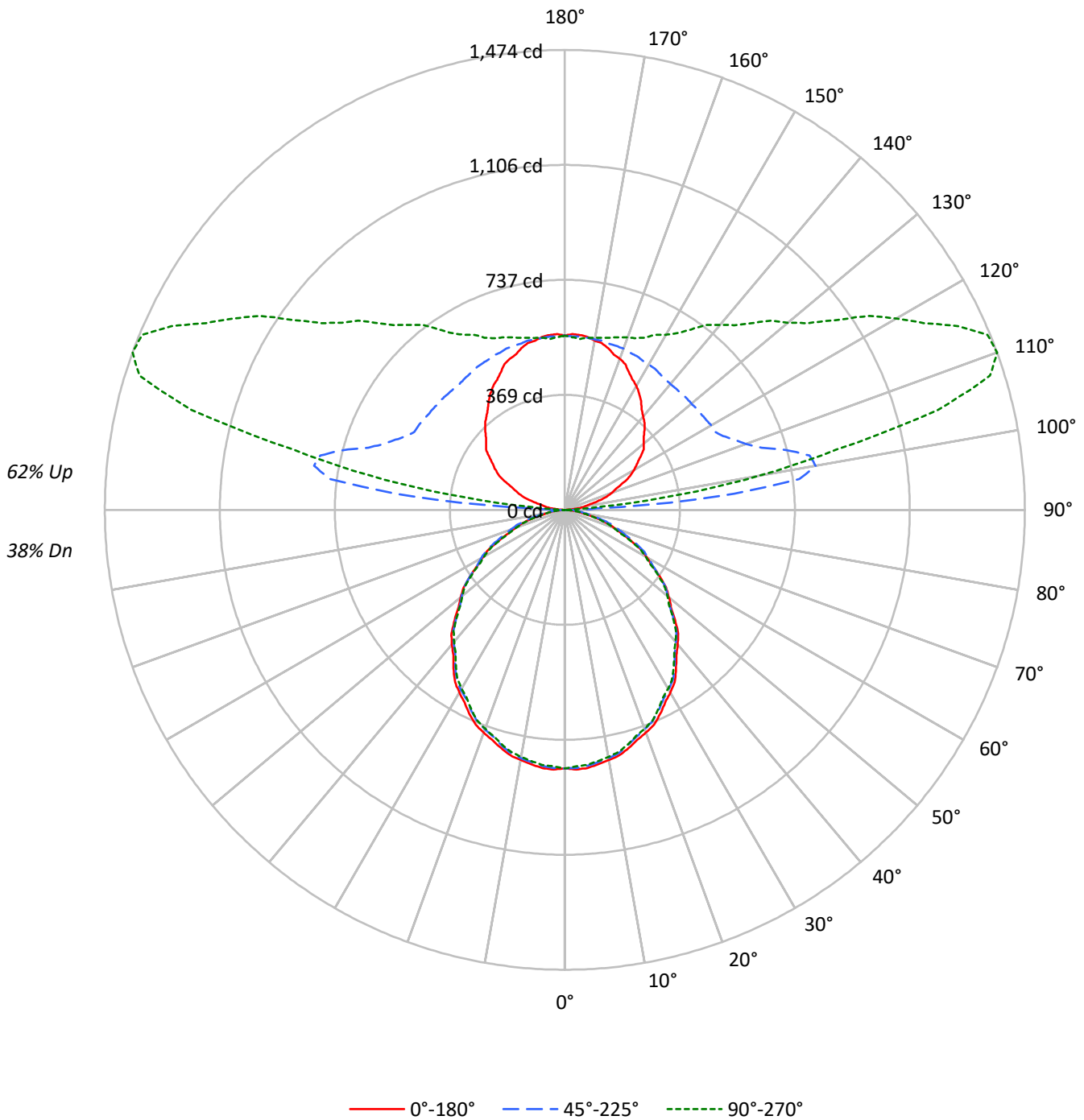
Input Watts (W): 44.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	7644	7644	7644
5°	7693	7632	7599
10°	7632	7570	7529
15°	7551	7467	7439
20°	7461	7346	7331
25°	7356	7223	7200
30°	7201	7092	7045
35°	6997	6898	6857
40°	6778	6672	6646
45°	6515	6429	6400
50°	6244	6192	6150
55°	5953	5953	5858
60°	5589	5698	5495
65°	5115	5370	4988
70°	4510	4942	4392
75°	3850	4424	3747
80°	2986	3725	3023
85°	1927	2858	2551



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	1.4
10°-20°	220.3	4.0
20°-30°	326.7	5.9
30°-40°	382.3	6.9
40°-50°	380.6	6.8
50°-60°	328.7	5.9
60°-70°	236.6	4.2
70°-80°	124.1	2.2
80°-90°	30.8	0.6
90°-100°	254.3	4.6
100°-110°	723.6	13.0
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	1.0
0°-30°	625.0	11.2
0°-40°	1007.3	18.1
0°-60°	1716.5	30.8
0°-90°	2107.9	37.8
90°-120°	1671.3	30.0
90°-150°	3005.3	53.9
90°-180°	3467.0	62.2
0°-180°	5574.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	828	828	828	828	828	
5°	831	821	824	822	820	79
15°	790	780	782	780	779	223
25°	723	710	710	705	707	332
35°	621	613	612	607	609	388
45°	499	495	493	491	490	385
55°	370	369	370	365	364	330
65°	234	241	246	236	228	232
75°	108	118	124	116	105	116
85°	18	24	27	26	24	24
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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CATALOG NUMBER: SQ4-PW1-075U-050D-92765-1D-UNV-STD-W-4 (5700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	828.5	828.5	828.5	828.5	828.5
2.5°	833.2	826.3	828.5	826.6	822.6
5°	830.7	821.4	824.1	821.9	820.5
7.5°	822.2	813.6	815.6	813.3	812.4
10°	814.6	806.0	808.0	805.1	803.7
12.5°	805.9	796.7	798.7	795.8	794.9
15°	790.5	780.5	781.8	780.3	778.8
17.5°	772.7	762.6	762.8	760.4	760.2
20°	759.9	749.2	748.2	745.3	746.7
22.5°	745.9	734.6	733.6	729.5	731.5
25°	722.6	710.5	709.5	705.2	707.3
27.5°	695.8	683.8	683.8	677.7	680.0
30°	675.9	664.5	665.7	658.5	661.3
32.5°	654.9	644.6	645.3	638.0	640.9
35°	621.2	612.6	612.4	606.6	608.8
37.5°	586.7	579.2	578.0	574.6	575.2
40°	562.8	556.4	554.0	551.8	551.8
42.5°	537.7	531.8	529.5	527.9	527.3
45°	499.3	495.0	492.7	491.2	490.5
47.5°	461.3	457.3	455.3	454.3	453.6
50°	435.0	432.2	431.4	429.2	428.5
52.5°	408.8	407.1	406.3	403.5	402.8
55°	370.1	369.4	370.1	365.0	364.2
57.5°	329.8	330.9	333.3	326.4	324.7
60°	302.9	305.8	308.8	300.7	297.8
62.5°	275.5	280.0	284.2	275.0	271.0
65°	234.3	241.4	246.0	236.3	228.5
67.5°	194.6	203.5	208.9	198.5	189.6
70°	167.2	177.1	183.2	172.8	162.8
72.5°	143.2	154.3	159.3	149.4	139.4
75°	108.0	118.0	124.1	115.8	105.1
77.5°	76.6	86.1	91.1	83.9	75.0
80°	56.2	66.2	70.1	64.1	56.9
82.5°	39.9	48.1	50.8	47.2	42.3
85°	18.2	24.0	27.0	25.5	24.1
87.5°	4.7	8.7	11.1	11.1	11.7
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)