

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: P562246

Luminaire Tested: **SQ4-PW1-075U-050D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562246
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 (3000K)
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 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

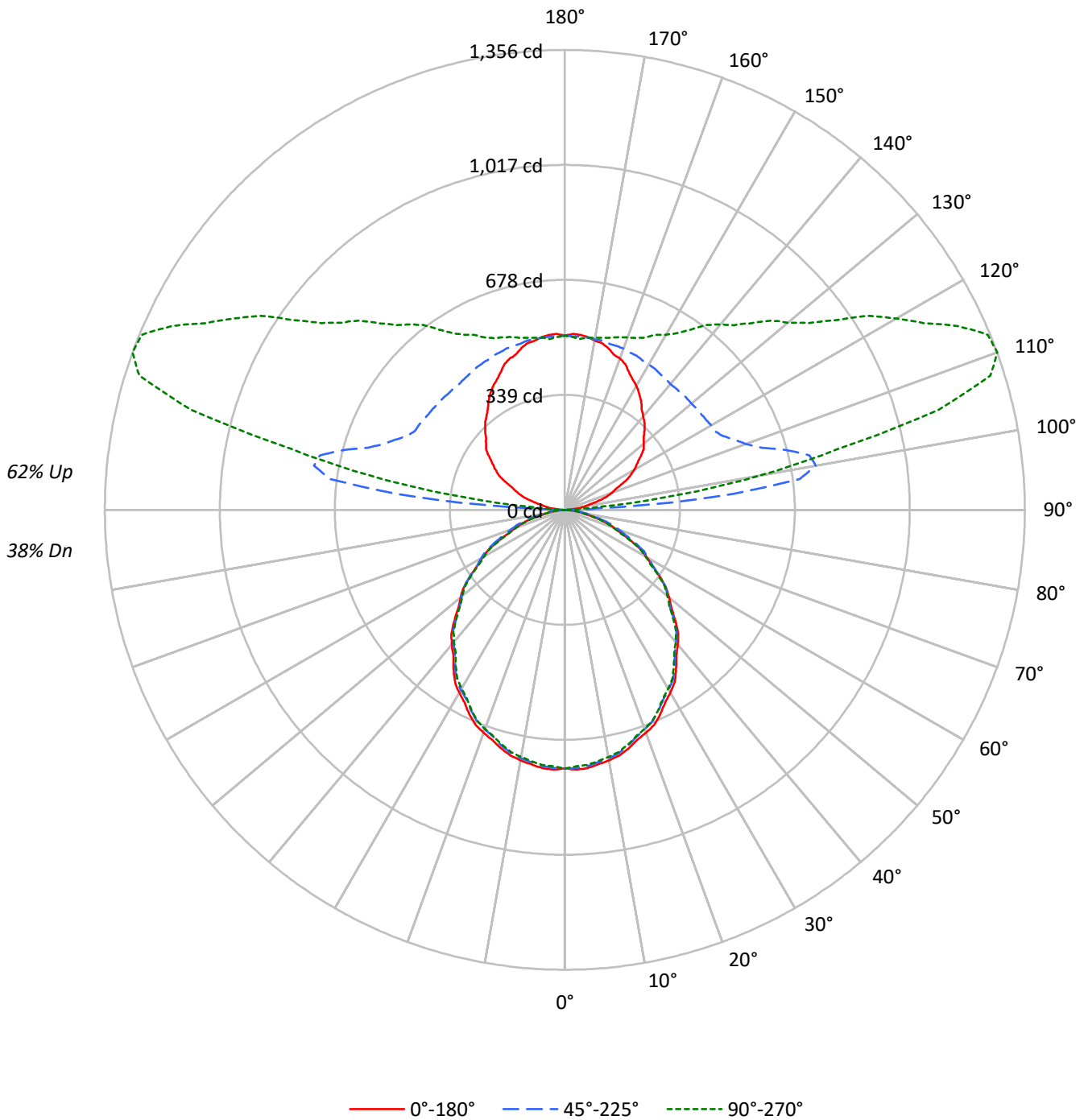
Lumens per Lamp: N/A
Luminaire Lumens: 5130.8 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	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°	7035	7035	7035
5°	7080	7025	6993
10°	7024	6967	6930
15°	6950	6872	6847
20°	6867	6761	6748
25°	6771	6648	6627
30°	6628	6527	6485
35°	6439	6348	6311
40°	6239	6141	6117
45°	5995	5917	5891
50°	5747	5698	5661
55°	5479	5479	5392
60°	5145	5244	5058
65°	4709	4943	4591
70°	4149	4548	4041
75°	3543	4071	3447
80°	2747	3427	2784
85°	1778	2636	2350



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.8	1.4
10°-20°	202.7	4.0
20°-30°	300.7	5.9
30°-40°	351.8	6.9
40°-50°	350.3	6.8
50°-60°	302.5	5.9
60°-70°	217.7	4.2
70°-80°	114.2	2.2
80°-90°	28.3	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	1.0
0°-30°	575.2	11.2
0°-40°	927.0	18.1
0°-60°	1579.8	30.8
0°-90°	1940.0	37.8
90°-120°	1538.2	30.0
90°-150°	2766.0	53.9
90°-180°	3191.0	62.2
0°-180°	5130.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	762	762	762	762	762	
5°	764	756	758	756	755	72
15°	728	718	720	718	717	205
25°	665	654	653	649	651	306
35°	572	564	564	558	560	357
45°	460	456	454	452	452	355
55°	341	340	341	336	335	304
65°	216	222	226	218	210	214
75°	99	109	114	107	97	107
85°	17	22	25	24	22	22
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-PW1-075U-050D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	762.5	762.5	762.5	762.5	762.5
2.5°	766.8	760.5	762.5	760.8	757.1
5°	764.5	756.0	758.5	756.4	755.1
7.5°	756.7	748.8	750.7	748.5	747.7
10°	749.7	741.9	743.7	741.0	739.7
12.5°	741.7	733.3	735.1	732.4	731.6
15°	727.6	718.4	719.5	718.1	716.8
17.5°	711.2	701.8	702.0	699.9	699.6
20°	699.4	689.5	688.6	685.9	687.3
22.5°	686.5	676.1	675.2	671.4	673.3
25°	665.1	653.9	653.0	649.0	651.0
27.5°	640.4	629.3	629.3	623.8	625.9
30°	622.1	611.6	612.7	606.0	608.7
32.5°	602.7	593.3	593.9	587.2	589.8
35°	571.7	563.8	563.6	558.3	560.3
37.5°	540.0	533.0	531.9	528.9	529.4
40°	518.0	512.1	509.9	507.9	507.9
42.5°	494.9	489.5	487.3	485.8	485.3
45°	459.5	455.6	453.5	452.1	451.5
47.5°	424.6	420.9	419.1	418.1	417.5
50°	400.4	397.8	397.0	395.0	394.4
52.5°	376.2	374.6	373.9	371.4	370.7
55°	340.6	339.9	340.6	335.9	335.2
57.5°	303.5	304.6	306.7	300.4	298.8
60°	278.8	281.4	284.2	276.7	274.1
62.5°	253.5	257.7	261.6	253.1	249.4
65°	215.7	222.2	226.4	217.5	210.3
67.5°	179.1	187.2	192.3	182.7	174.5
70°	153.8	163.0	168.6	159.0	149.8
72.5°	131.8	142.1	146.6	137.5	128.3
75°	99.4	108.6	114.2	106.6	96.7
77.5°	70.5	79.2	83.8	77.2	69.1
80°	51.7	60.9	64.5	59.0	52.4
82.5°	36.7	44.3	46.8	43.4	39.0
85°	16.8	22.1	24.9	23.5	22.2
87.5°	4.3	8.0	10.2	10.2	10.7
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)