

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: P562145

Luminaire Tested: **SQ4-PW1-025U-050D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562145
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-PW1-025U-050D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

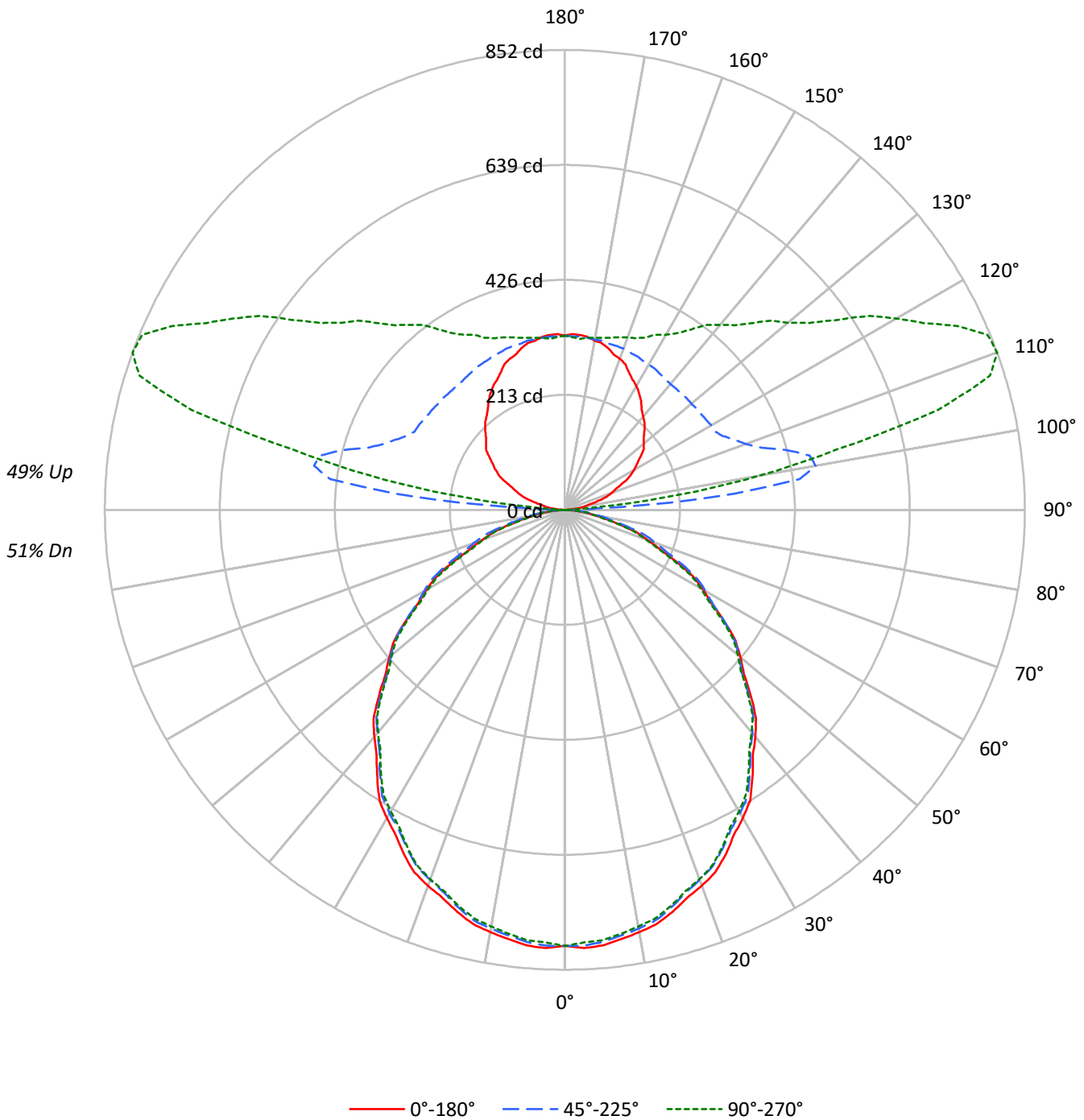
Lumens per Lamp: N/A
Luminaire Lumens: 4059.5 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 34.7
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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51				
1	98	94	90	86	90	87	83	80	74	71	69	61	60	58	50	49	48	43				
2	89	82	76	71	82	76	71	66	65	61	57	54	51	49	44	42	41	36				
3	82	72	65	59	75	67	60	55	57	52	48	48	44	41	39	37	35	31				
4	75	64	56	50	69	59	52	47	51	45	41	43	39	35	35	32	30	26				
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	32	29	26	23				
6	63	51	43	37	58	48	40	35	41	35	31	35	30	27	29	26	23	20				
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16				
9	50	38	31	26	47	36	29	24	31	26	22	27	22	19	22	19	17	14				
10	47	35	28	23	44	33	26	22	29	23	20	24	20	17	21	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7454	7454	7454
5°	7502	7442	7410
10°	7442	7382	7342
15°	7363	7282	7254
20°	7275	7163	7150
25°	7174	7044	7021
30°	7022	6916	6870
35°	6823	6726	6687
40°	6610	6507	6481
45°	6353	6269	6241
50°	6089	6038	5997
55°	5805	5805	5714
60°	5451	5556	5359
65°	4988	5237	4864
70°	4397	4821	4281
75°	3754	4313	3654
80°	2912	3629	2949
85°	1884	2784	2488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	1.9
10°-20°	214.8	5.3
20°-30°	318.6	7.8
30°-40°	372.8	9.2
40°-50°	371.1	9.1
50°-60°	320.5	7.9
60°-70°	230.7	5.7
70°-80°	121.0	3.0
80°-90°	30.0	0.7
90°-100°	147.0	3.6
100°-110°	418.3	10.3
110°-120°	400.8	9.9
120°-130°	317.2	7.8
130°-140°	254.6	6.3
140°-150°	199.3	4.9
150°-160°	145.8	3.6
160°-170°	90.3	2.2
170°-180°	30.7	0.8
0°-30°	609.5	15.0
0°-40°	982.3	24.2
0°-60°	1673.9	41.2
0°-90°	2055.5	50.6
90°-120°	966.1	23.8
90°-150°	1737.2	42.8
90°-180°	2004.0	49.4
0°-180°	4059.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	808	808	808	808	808	
5°	810	801	804	802	800	77
15°	771	761	762	761	760	217
25°	705	693	692	688	690	324
35°	606	597	597	592	594	379
45°	487	483	480	479	478	376
55°	361	360	361	356	355	322
65°	228	236	240	230	223	226
75°	105	115	121	113	102	113
85°	18	23	26	25	24	23
90°	0	0	0	0	0	1
95°	16	63	285	98	61	18
105°	65	99	426	753	716	69
115°	121	146	323	685	804	119
125°	170	189	308	512	612	153
135°	208	226	305	432	489	161
145°	246	258	307	374	408	154
155°	281	288	315	338	352	130
165°	310	312	318	325	330	87
175°	325	323	322	320	318	31
180°	323	323	323	323	323	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	807.9	807.9	807.9	807.9	807.9
2.5°	812.5	805.8	807.9	806.1	802.2
5°	810.0	801.0	803.6	801.5	800.1
7.5°	801.8	793.4	795.4	793.1	792.2
10°	794.4	786.0	788.0	785.1	783.7
12.5°	785.8	776.9	778.9	776.0	775.2
15°	770.9	761.2	762.4	760.9	759.5
17.5°	753.5	743.6	743.8	741.6	741.3
20°	741.0	730.6	729.6	726.8	728.2
22.5°	727.3	716.3	715.4	711.4	713.4
25°	704.7	692.9	691.9	687.7	689.7
27.5°	678.5	666.8	666.8	660.9	663.1
30°	659.1	648.0	649.2	642.1	644.9
32.5°	638.6	628.6	629.2	622.2	625.0
35°	605.8	597.4	597.2	591.6	593.7
37.5°	572.2	564.8	563.6	560.4	560.9
40°	548.8	542.5	540.3	538.1	538.1
42.5°	524.3	518.6	516.3	514.8	514.2
45°	486.9	482.7	480.5	479.0	478.3
47.5°	449.9	446.0	444.0	443.0	442.3
50°	424.2	421.5	420.7	418.5	417.8
52.5°	398.6	396.9	396.2	393.5	392.8
55°	360.9	360.2	360.9	355.9	355.2
57.5°	321.6	322.7	325.0	318.3	316.6
60°	295.4	298.2	301.1	293.2	290.4
62.5°	268.6	273.1	277.2	268.1	264.2
65°	228.5	235.5	239.9	230.5	222.8
67.5°	189.8	198.4	203.7	193.6	184.9
70°	163.0	172.7	178.7	168.5	158.7
72.5°	139.7	150.5	155.3	145.7	136.0
75°	105.3	115.1	121.0	112.9	102.5
77.5°	74.7	83.9	88.8	81.8	73.2
80°	54.8	64.6	68.3	62.5	55.5
82.5°	38.9	46.9	49.5	46.0	41.3
85°	17.8	23.4	26.3	24.9	23.5
87.5°	4.6	8.5	10.8	10.8	11.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.9	26.0	60.4	17.6	13.2
95°	15.9	63.3	284.6	98.5	60.7
97.5°	29.3	74.2	438.3	313.6	214.9
100°	38.6	80.6	471.7	477.7	368.0
102.5°	48.9	87.6	464.3	611.5	515.7
105°	65.0	98.6	426.3	752.9	715.8
107.5°	81.3	111.4	381.9	792.8	825.9
110°	92.6	120.8	356.3	777.6	851.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	103.4	130.2	339.2	741.5	847.5
115°	120.8	146.0	323.2	684.7	804.1
117.5°	136.2	159.8	313.8	622.7	749.1
120°	148.4	168.2	312.8	587.3	708.4
122.5°	158.2	178.0	310.3	556.2	668.7
125°	170.5	189.1	308.5	512.0	612.1
127.5°	183.9	201.3	307.5	485.6	568.1
130°	190.7	208.1	306.1	467.2	539.1
132.5°	198.1	215.0	306.1	452.8	519.0
135°	208.5	225.9	304.8	432.5	488.8
137.5°	218.3	235.3	304.7	415.2	463.9
140°	225.7	243.1	304.2	401.0	447.7
142.5°	234.0	248.6	305.7	389.6	431.5
145°	245.9	258.5	307.3	374.3	407.9
147.5°	256.1	268.4	310.0	358.8	387.9
150°	265.0	273.4	311.0	353.7	374.1
152.5°	271.8	280.7	311.9	346.8	365.8
155°	280.9	287.5	314.6	338.3	352.1
157.5°	292.2	296.2	315.3	334.4	344.2
160°	298.1	301.1	317.7	331.4	339.8
162.5°	301.5	305.0	318.2	328.9	335.4
165°	310.3	311.5	318.3	325.2	330.0
167.5°	316.4	315.3	321.1	324.3	326.2
170°	318.3	317.7	320.2	320.8	323.2
172.5°	322.7	320.7	321.6	319.8	321.8
175°	325.1	323.3	322.0	320.1	317.7
177.5°	326.0	323.2	321.6	319.7	320.2
180°	322.6	322.6	322.6	322.6	322.6

(END OF REPORT)