

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: P562144

Luminaire Tested: **SQ4-PW1-025U-050D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562144
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

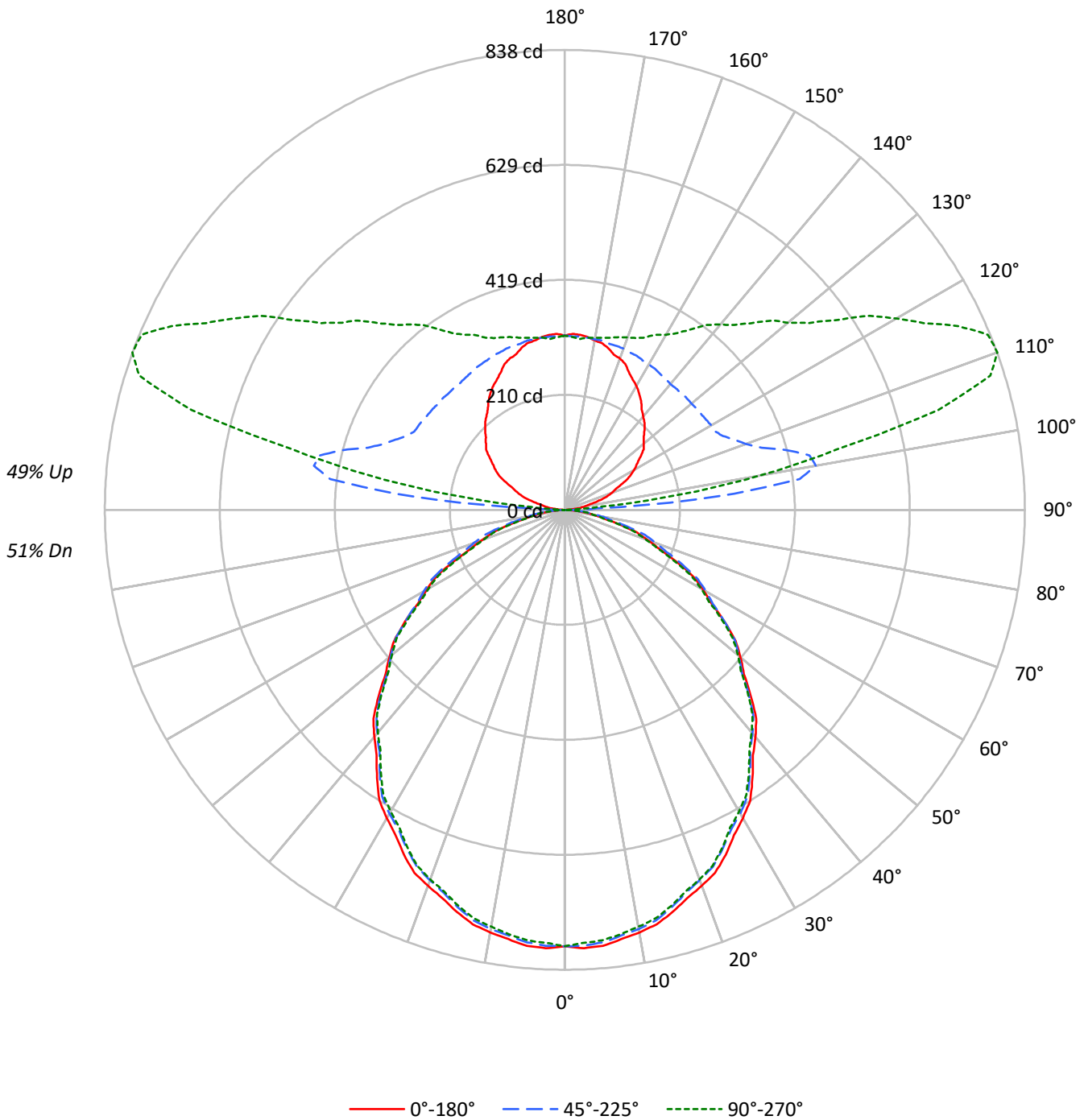
Lumens per Lamp: N/A
Luminaire Lumens: 3995.1 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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°	7336	7336	7336
5°	7383	7325	7292
10°	7324	7265	7226
15°	7247	7167	7139
20°	7160	7050	7036
25°	7060	6932	6910
30°	6911	6807	6762
35°	6714	6619	6580
40°	6505	6404	6378
45°	6253	6169	6142
50°	5993	5942	5902
55°	5714	5714	5623
60°	5364	5467	5274
65°	4910	5154	4788
70°	4327	4742	4214
75°	3697	4246	3597
80°	2864	3570	2901
85°	1853	2742	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	1.9
10°-20°	211.4	5.3
20°-30°	313.5	7.8
30°-40°	366.9	9.2
40°-50°	365.2	9.1
50°-60°	315.4	7.9
60°-70°	227.0	5.7
70°-80°	119.1	3.0
80°-90°	29.5	0.7
90°-100°	144.7	3.6
100°-110°	411.6	10.3
110°-120°	394.4	9.9
120°-130°	312.1	7.8
130°-140°	250.5	6.3
140°-150°	196.1	4.9
150°-160°	143.5	3.6
160°-170°	88.9	2.2
170°-180°	30.2	0.8
0°-30°	599.8	15.0
0°-40°	966.7	24.2
0°-60°	1647.3	41.2
0°-90°	2022.9	50.6
90°-120°	950.7	23.8
90°-150°	1709.6	42.8
90°-180°	1972.0	49.4
0°-180°	3995.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	797	788	791	789	787	76
15°	759	749	750	749	747	214
25°	694	682	681	677	679	319
35°	596	588	588	582	584	373
45°	479	475	473	471	471	370
55°	355	354	355	350	350	317
65°	225	232	236	227	219	223
75°	104	113	119	111	101	111
85°	18	23	26	24	23	23
90°	0	0	0	0	0	1
95°	16	62	280	97	60	18
105°	64	97	420	741	704	68
115°	119	144	318	674	791	117
125°	168	186	304	504	602	150
135°	205	222	300	426	481	158
145°	242	254	302	368	401	151
155°	276	283	310	333	346	128
165°	305	307	313	320	325	86
175°	320	318	317	315	313	30
180°	318	318	318	318	318	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	795.1	795.1	795.1	795.1	795.1
2.5°	799.6	793.0	795.1	793.3	789.5
5°	797.2	788.3	790.9	788.7	787.4
7.5°	789.1	780.8	782.8	780.5	779.7
10°	781.8	773.6	775.5	772.6	771.3
12.5°	773.4	764.6	766.5	763.7	762.9
15°	758.7	749.1	750.3	748.8	747.4
17.5°	741.6	731.8	732.0	729.8	729.5
20°	729.2	719.0	718.0	715.3	716.6
22.5°	715.8	705.0	704.0	700.1	702.1
25°	693.5	681.9	680.9	676.7	678.8
27.5°	667.7	656.2	656.2	650.4	652.6
30°	648.7	637.7	638.9	631.9	634.7
32.5°	628.5	618.6	619.3	612.3	615.1
35°	596.1	587.9	587.7	582.2	584.2
37.5°	563.1	555.8	554.7	551.5	552.0
40°	540.1	533.9	531.7	529.6	529.6
42.5°	516.0	510.4	508.2	506.6	506.1
45°	479.2	475.0	472.8	471.4	470.7
47.5°	442.7	438.9	437.0	436.0	435.3
50°	417.5	414.8	414.0	411.9	411.2
52.5°	392.3	390.6	389.9	387.2	386.5
55°	355.2	354.5	355.2	350.2	349.6
57.5°	316.5	317.6	319.9	313.2	311.6
60°	290.7	293.5	296.3	288.5	285.8
62.5°	264.4	268.8	272.8	263.9	260.0
65°	224.9	231.7	236.1	226.8	219.3
67.5°	186.8	195.3	200.5	190.5	182.0
70°	160.4	170.0	175.8	165.8	156.2
72.5°	137.4	148.1	152.9	143.4	133.8
75°	103.7	113.3	119.1	111.1	100.9
77.5°	73.6	82.6	87.4	80.5	72.0
80°	53.9	63.5	67.2	61.5	54.6
82.5°	38.2	46.2	48.8	45.3	40.6
85°	17.5	23.0	25.9	24.5	23.1
87.5°	4.5	8.3	10.6	10.7	11.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.8	25.6	59.4	17.3	13.0
95°	15.7	62.3	280.1	96.9	59.8
97.5°	28.9	73.0	431.3	308.6	211.5
100°	38.0	79.3	464.2	470.2	362.2
102.5°	48.2	86.2	456.9	601.8	507.5
105°	64.0	97.0	419.5	741.0	704.4
107.5°	80.0	109.7	375.8	780.2	812.8
110°	91.1	118.9	350.7	765.2	838.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	101.8	128.1	333.8	729.7	834.1
115°	118.9	143.7	318.1	673.9	791.3
117.5°	134.0	157.3	308.8	612.8	737.2
120°	146.1	165.5	307.8	577.9	697.2
122.5°	155.7	175.2	305.4	547.3	658.0
125°	167.8	186.1	303.6	503.8	602.4
127.5°	181.0	198.1	302.6	477.8	559.1
130°	187.7	204.8	301.2	459.7	530.6
132.5°	195.0	211.6	301.2	445.6	510.8
135°	205.2	222.3	300.0	425.6	481.1
137.5°	214.9	231.5	299.9	408.6	456.6
140°	222.1	239.2	299.4	394.6	440.6
142.5°	230.3	244.6	300.8	383.4	424.7
145°	242.0	254.4	302.4	368.3	401.4
147.5°	252.1	264.1	305.1	353.2	381.7
150°	260.8	269.0	306.0	348.1	368.2
152.5°	267.5	276.2	307.0	341.3	360.0
155°	276.4	282.9	309.6	332.9	346.5
157.5°	287.6	291.4	310.2	329.1	338.7
160°	293.3	296.3	312.7	326.1	334.4
162.5°	296.7	300.2	313.1	323.7	330.0
165°	305.4	306.6	313.3	320.0	324.7
167.5°	311.3	310.3	316.0	319.1	321.0
170°	313.3	312.7	315.1	315.7	318.1
172.5°	317.6	315.6	316.5	314.8	316.6
175°	319.9	318.1	316.9	315.0	312.7
177.5°	320.9	318.0	316.5	314.6	315.1
180°	317.5	317.5	317.5	317.5	317.5

(END OF REPORT)