

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: P562196

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562196
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-PW1-050U-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 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

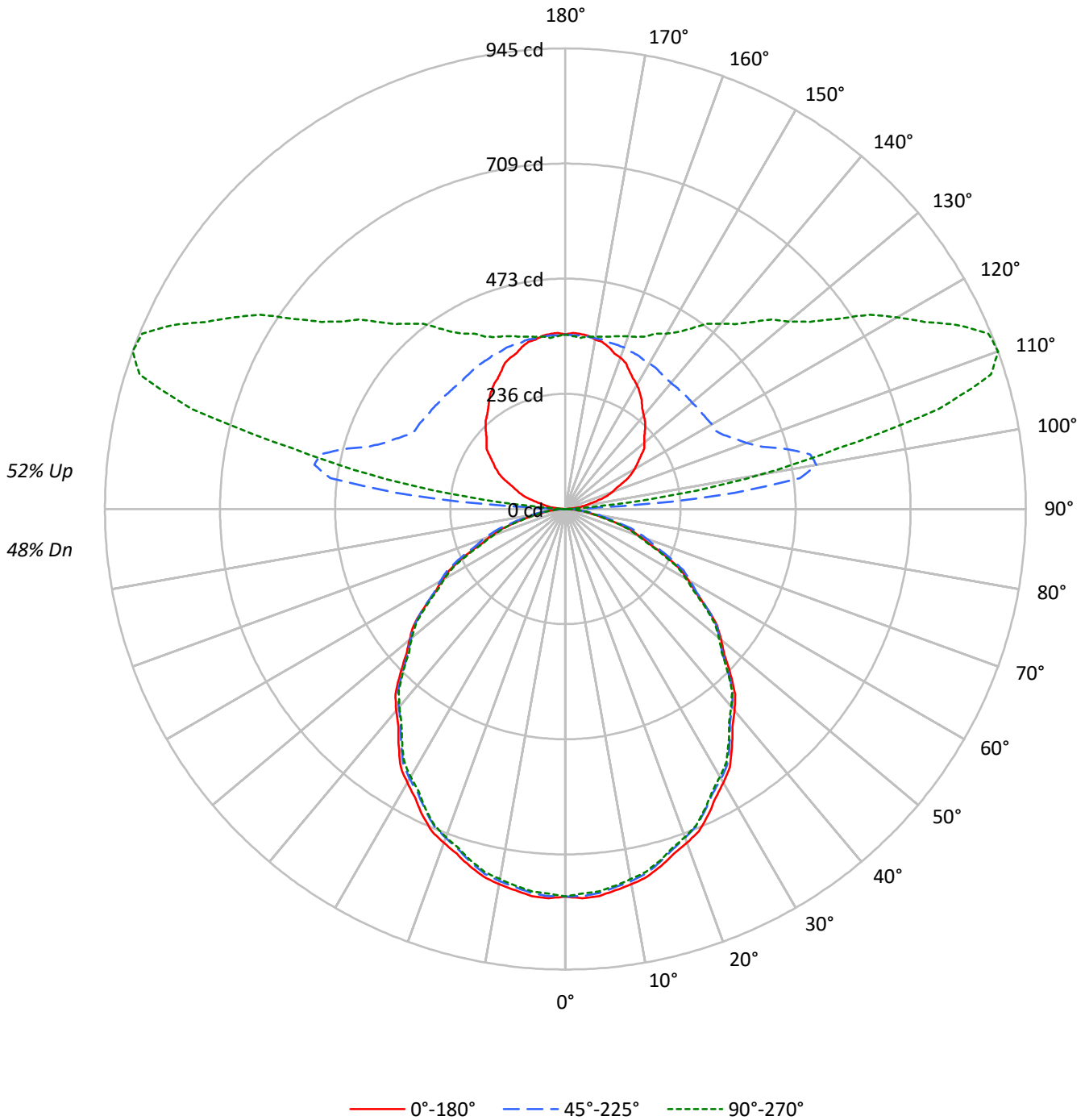
Lumens per Lamp: N/A
Luminaire Lumens: 4245.6 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.5
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	98	98	98	98	82	82	82	67	67	67	54	54	54	48				48
1	97	93	89	86	89	86	83	80	72	70	68	59	58	56	48	47	46				40	
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39				34	
3	81	72	64	59	74	66	60	55	56	51	47	46	43	40	37	35	33				29	
4	74	63	56	50	68	59	52	46	50	44	40	41	37	34	33	31	28				25	
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25				22	
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22				19	
7	58	46	38	32	53	42	35	30	36	31	27	30	26	23	25	22	19				17	
8	54	41	34	28	49	39	32	27	33	28	24	28	24	20	23	20	17				15	
9	50	38	30	25	46	35	29	24	30	25	21	26	21	18	21	18	16				14	
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14				12	

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	1.8
10°-20°	211.4	5.0
20°-30°	313.5	7.4
30°-40°	366.9	8.6
40°-50°	365.2	8.6
50°-60°	315.4	7.4
60°-70°	227.0	5.3
70°-80°	119.1	2.8
80°-90°	29.5	0.7
90°-100°	163.0	3.8
100°-110°	463.9	10.9
110°-120°	444.5	10.5
120°-130°	351.8	8.3
130°-140°	282.4	6.7
140°-150°	221.1	5.2
150°-160°	161.8	3.8
160°-170°	100.2	2.4
170°-180°	34.0	0.8
0°-30°	599.8	14.1
0°-40°	966.7	22.8
0°-60°	1647.3	38.8
0°-90°	2022.9	47.6
90°-120°	1071.5	25.2
90°-150°	1926.7	45.4
90°-180°	2223.0	52.4
0°-180°	4245.6	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°	18	70	316	109	67	20
105°	72	109	473	835	794	76
115°	134	162	358	760	892	132
125°	189	210	342	568	679	169
135°	231	251	338	480	542	178
145°	273	287	341	415	452	170
155°	312	319	349	375	390	144
165°	344	346	353	361	366	97
175°	360	358	357	355	352	34
180°	358	358	358	358	358	

TEST NUMBER: P562196

CATALOG NUMBER: SQ4-PW1-050U-050D-92765-1D-UNV-STD-W-4 (4000K)

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°	5.4	28.9	66.9	19.5	14.7
95°	17.7	70.2	315.6	109.3	67.3
97.5°	32.5	82.3	486.1	347.8	238.4
100°	42.9	89.4	523.1	529.9	408.2
102.5°	54.3	97.1	515.0	678.3	572.0
105°	72.1	109.4	472.8	835.1	793.9
107.5°	90.2	123.6	423.5	879.3	916.0
110°	102.7	134.0	395.2	862.4	944.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	114.7	144.4	376.2	822.4	940.0
115°	134.0	161.9	358.5	759.5	891.8
117.5°	151.0	177.2	348.0	690.7	830.9
120°	164.6	186.6	346.9	651.3	785.7
122.5°	175.5	197.5	344.2	616.8	741.6
125°	189.1	209.7	342.2	567.8	678.9
127.5°	203.9	223.2	341.1	538.5	630.1
130°	211.6	230.9	339.5	518.1	598.0
132.5°	219.7	238.5	339.5	502.2	575.6
135°	231.3	250.6	338.1	479.6	542.2
137.5°	242.2	260.9	338.0	460.5	514.6
140°	250.3	269.6	337.4	444.7	496.6
142.5°	259.6	275.7	339.0	432.1	478.6
145°	272.8	286.8	340.8	415.1	452.4
147.5°	284.1	297.6	343.8	398.0	430.2
150°	293.9	303.2	344.9	392.3	415.0
152.5°	301.5	311.3	346.0	384.7	405.7
155°	311.6	318.9	349.0	375.2	390.5
157.5°	324.1	328.5	349.7	370.9	381.8
160°	330.6	333.9	352.4	367.6	376.9
162.5°	334.4	338.3	352.9	364.8	372.0
165°	344.2	345.5	353.1	360.7	366.0
167.5°	350.9	349.7	356.2	359.6	361.8
170°	353.1	352.4	355.1	355.8	358.5
172.5°	358.0	355.7	356.7	354.7	356.9
175°	360.5	358.5	357.1	355.0	352.4
177.5°	361.6	358.4	356.7	354.6	355.1
180°	357.8	357.8	357.8	357.8	357.8

(END OF REPORT)