

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: P523676

Luminaire Tested: **SQ4-PP3-050U-050D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523676
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-050D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4384.8 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

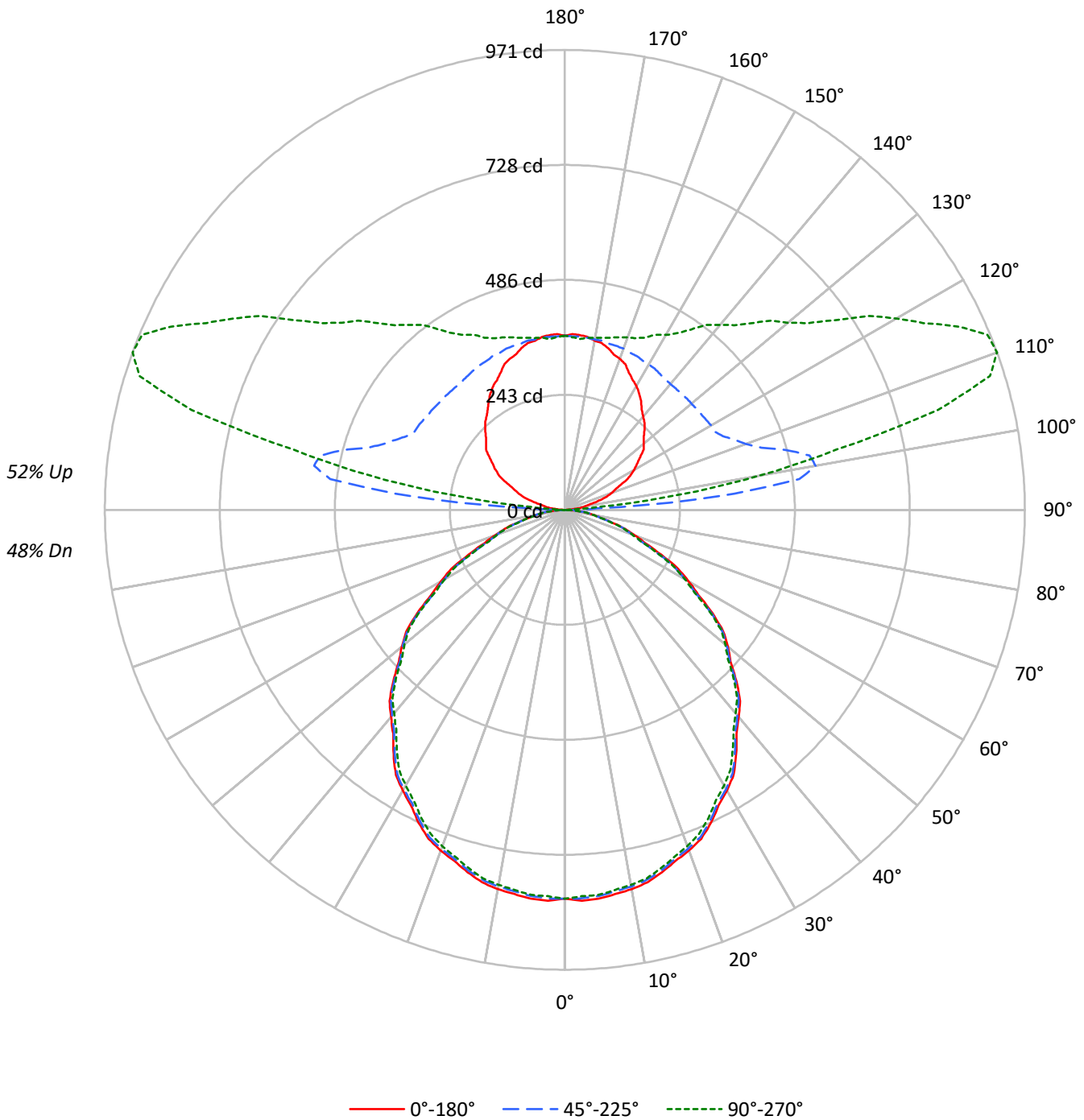
Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	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	68	68	68	54	54	54	48		
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41		
2	89	82	76	71	82	75	70	66	64	60	56	53	50	48	43	41	39	34		
3	81	72	65	59	74	66	60	55	56	51	48	47	43	40	38	36	33	29		
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25		
5	68	57	49	43	63	53	45	40	45	39	35	37	33	30	31	28	25	22		
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19		
7	58	46	38	33	53	43	36	31	37	31	27	31	27	23	25	22	20	17		
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15		
9	50	38	31	26	46	35	29	24	31	25	21	26	22	19	21	18	16	14		
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7575	7575	7575
5°	7630	7583	7556
10°	7618	7563	7529
15°	7567	7526	7485
20°	7517	7475	7418
25°	7427	7376	7303
30°	7290	7252	7159
35°	7099	7051	6962
40°	6872	6829	6751
45°	6684	6637	6572
50°	6445	6403	6341
55°	6111	6030	5984
60°	5563	5403	5377
65°	4901	4696	4681
70°	4232	4057	4057
75°	3643	3590	3540
80°	3209	3252	3172
85°	2509	2742	2742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	1.8
10°-20°	221.7	5.1
20°-30°	332.0	7.6
30°-40°	389.5	8.9
40°-50°	390.7	8.9
50°-60°	333.3	7.6
60°-70°	217.3	5.0
70°-80°	109.0	2.5
80°-90°	30.2	0.7
90°-100°	167.5	3.8
100°-110°	476.6	10.9
110°-120°	456.7	10.4
120°-130°	361.4	8.2
130°-140°	290.1	6.6
140°-150°	227.1	5.2
150°-160°	166.2	3.8
160°-170°	102.9	2.3
170°-180°	34.9	0.8
0°-30°	631.3	14.4
0°-40°	1020.8	23.3
0°-60°	1744.7	39.8
0°-90°	2101.3	47.9
90°-120°	1100.8	25.1
90°-150°	1979.5	45.1
90°-180°	2283.0	52.1
0°-180°	4384.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	821	821	821	821	821	
5°	824	816	819	816	816	78
15°	792	784	788	785	784	223
25°	730	721	725	718	717	336
35°	630	624	626	619	618	394
45°	512	509	509	504	504	394
55°	380	378	375	373	372	338
65°	224	220	215	214	214	224
75°	102	102	101	100	99	111
85°	24	26	26	26	26	28
90°	0	0	0	0	0	2
95°	18	72	324	112	69	21
105°	74	112	486	858	816	78
115°	138	166	368	780	916	136
125°	194	216	352	583	698	174
135°	238	257	347	493	557	183
145°	280	295	350	426	465	175
155°	320	328	358	385	401	148
165°	354	355	363	370	376	99
175°	370	368	367	365	362	35
180°	368	368	368	368	368	

TEST NUMBER: P523676

CATALOG NUMBER: SQ4-PP3-050U-050D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	821.0	821.0	821.0	821.0	821.0
2.5°	826.2	819.4	821.0	819.7	816.4
5°	823.8	816.1	818.8	815.9	815.9
7.5°	818.2	809.8	812.5	809.6	809.5
10°	813.1	804.6	807.3	804.4	803.7
12.5°	805.6	797.1	800.4	796.9	796.8
15°	792.2	784.5	787.9	785.0	783.6
17.5°	777.1	768.6	772.8	768.7	768.2
20°	765.6	757.1	761.3	755.5	755.5
22.5°	751.8	743.3	748.0	740.5	740.5
25°	729.6	721.1	724.6	718.1	717.4
27.5°	703.3	695.0	698.5	691.2	691.0
30°	684.3	676.5	680.7	672.7	672.0
32.5°	663.5	656.4	659.4	651.4	650.7
35°	630.3	624.0	626.0	618.8	618.1
37.5°	595.3	588.9	591.2	585.0	584.7
40°	570.6	566.4	567.0	561.9	560.5
42.5°	547.6	542.8	543.4	538.3	538.1
45°	512.3	508.8	508.7	503.7	503.7
47.5°	474.9	472.2	471.4	467.3	467.1
50°	449.0	446.9	446.1	442.5	441.8
52.5°	421.9	420.9	418.5	415.4	415.3
55°	379.9	378.5	374.9	372.7	372.0
57.5°	334.3	331.5	327.4	324.2	324.8
60°	301.5	298.7	292.8	291.4	291.4
62.5°	269.8	266.4	260.6	258.6	259.7
65°	224.5	220.3	215.1	213.7	214.4
67.5°	183.3	179.5	174.0	174.0	173.4
70°	156.9	154.7	150.4	150.4	150.4
72.5°	133.3	132.3	129.1	129.1	128.5
75°	102.2	102.2	100.7	100.0	99.3
77.5°	76.6	76.8	76.1	75.4	74.1
80°	60.4	61.8	61.2	60.4	59.7
82.5°	45.5	46.9	46.8	45.5	45.3
85°	23.7	25.9	25.9	25.9	25.9
87.5°	6.3	8.6	9.2	9.2	9.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.6	29.6	68.8	20.0	15.1
95°	18.2	72.2	324.3	112.2	69.2
97.5°	33.4	84.5	499.4	357.4	244.9
100°	44.0	91.9	537.4	544.4	419.3
102.5°	55.8	99.8	529.1	696.8	587.6
105°	74.1	112.3	485.7	858.0	815.6
107.5°	92.7	127.0	435.1	903.4	941.1
110°	105.5	137.6	406.1	886.0	970.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	117.8	148.3	386.5	844.9	965.7
115°	137.7	166.4	368.3	780.3	916.2
117.5°	155.2	182.1	357.6	709.6	853.6
120°	169.1	191.7	356.4	669.2	807.2
122.5°	180.3	202.9	353.6	633.7	761.9
125°	194.3	215.5	351.5	583.4	697.5
127.5°	209.5	229.3	350.4	553.3	647.3
130°	217.4	237.2	348.7	532.3	614.3
132.5°	225.7	245.0	348.7	516.0	591.4
135°	237.6	257.4	347.3	492.8	557.0
137.5°	248.8	268.1	347.2	473.1	528.6
140°	257.2	277.0	346.6	456.9	510.2
142.5°	266.7	283.2	348.3	443.9	491.7
145°	280.3	294.6	350.1	426.5	464.8
147.5°	291.9	305.8	353.2	408.9	442.0
150°	301.9	311.5	354.3	403.1	426.3
152.5°	309.7	319.9	355.5	395.2	416.8
155°	320.1	327.6	358.5	385.4	401.2
157.5°	332.9	337.5	359.2	381.0	392.2
160°	339.7	343.1	362.0	377.6	387.2
162.5°	343.6	347.5	362.6	374.8	382.2
165°	353.6	355.0	362.7	370.5	376.0
167.5°	360.5	359.3	365.9	369.5	371.7
170°	362.7	362.0	364.8	365.6	368.3
172.5°	367.8	365.4	366.5	364.4	366.6
175°	370.4	368.4	366.9	364.8	362.0
177.5°	371.5	368.2	366.5	364.3	364.8
180°	367.6	367.6	367.6	367.6	367.6

(END OF REPORT)