

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: P523674

Luminaire Tested: **SQ4-PP3-050U-050D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523674
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4267.9 lumens
Efficiency: N/A
Efficacy: 116.9 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

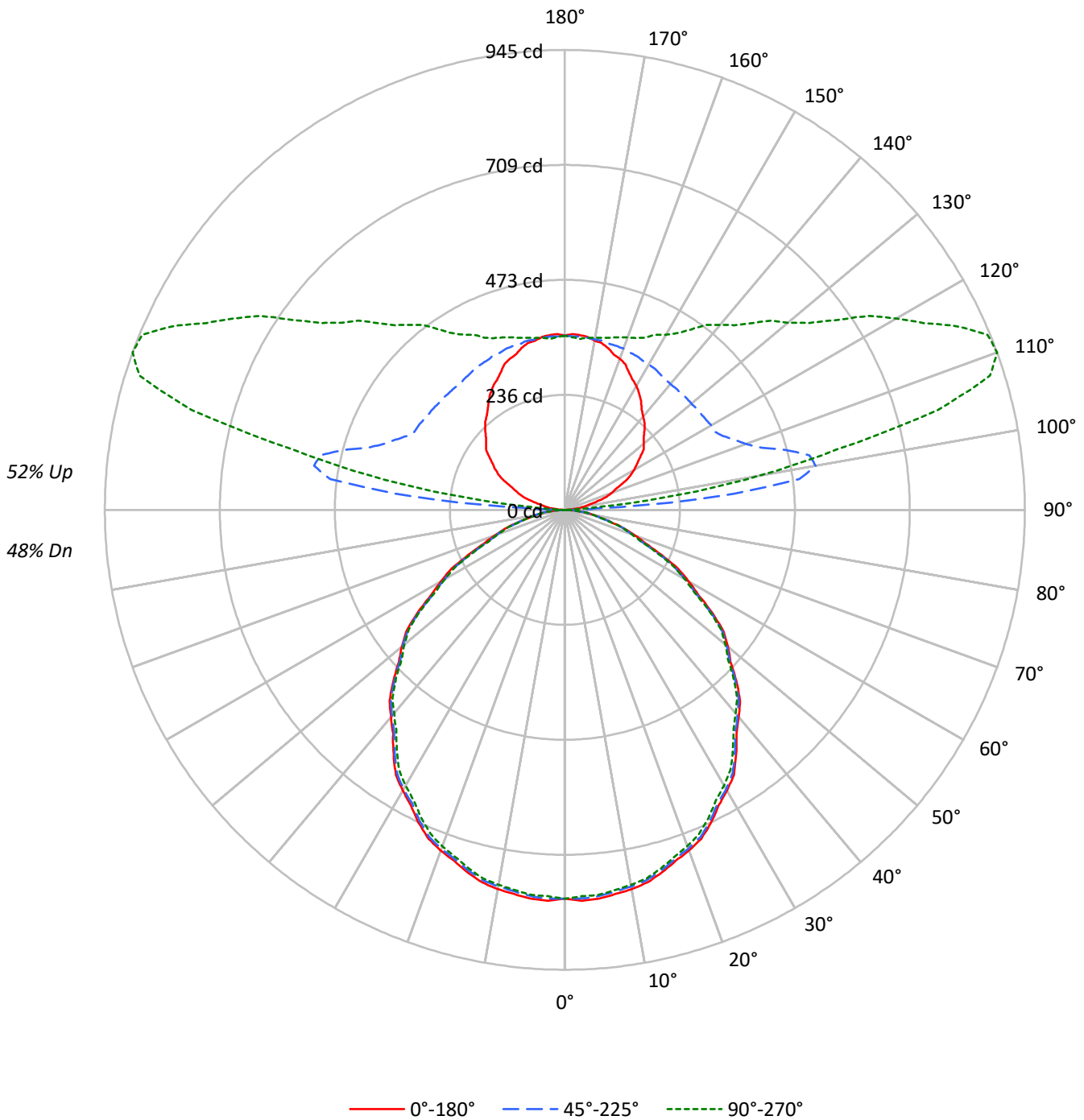
Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	68	68	68	54	54	54	48				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°	7373	7373	7373
5°	7427	7381	7355
10°	7414	7362	7329
15°	7365	7325	7285
20°	7317	7275	7220
25°	7230	7180	7108
30°	7095	7058	6968
35°	6910	6863	6776
40°	6689	6647	6571
45°	6506	6460	6396
50°	6272	6232	6172
55°	5948	5870	5825
60°	5414	5259	5233
65°	4770	4571	4556
70°	4119	3949	3949
75°	3543	3493	3444
80°	3124	3161	3087
85°	2445	2668	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	1.8
10°-20°	215.8	5.1
20°-30°	323.2	7.6
30°-40°	379.1	8.9
40°-50°	380.2	8.9
50°-60°	324.4	7.6
60°-70°	211.5	5.0
70°-80°	106.1	2.5
80°-90°	29.4	0.7
90°-100°	163.0	3.8
100°-110°	463.9	10.9
110°-120°	444.5	10.4
120°-130°	351.8	8.2
130°-140°	282.4	6.6
140°-150°	221.1	5.2
150°-160°	161.8	3.8
160°-170°	100.2	2.3
170°-180°	34.0	0.8
0°-30°	614.5	14.4
0°-40°	993.6	23.3
0°-60°	1698.2	39.8
0°-90°	2045.2	47.9
90°-120°	1071.5	25.1
90°-150°	1926.7	45.1
90°-180°	2223.0	52.1
0°-180°	4267.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	799	799	799	799	799	
5°	802	794	797	794	794	76
15°	771	764	767	764	763	218
25°	710	702	705	699	698	327
35°	614	607	609	602	602	383
45°	499	495	495	490	490	384
55°	370	368	365	363	362	329
65°	218	214	209	208	209	218
75°	99	99	98	97	97	108
85°	23	25	25	25	25	27
90°	0	0	0	0	0	2
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: P523674

CATALOG NUMBER: SQ4-PP3-050U-050D-92765-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	799.1	799.1	799.1	799.1	799.1
2.5°	804.1	797.6	799.1	797.9	794.6
5°	801.9	794.4	797.0	794.2	794.2
7.5°	796.4	788.2	790.8	788.0	787.9
10°	791.4	783.2	785.8	783.0	782.3
12.5°	784.1	775.9	779.1	775.7	775.6
15°	771.1	763.6	766.9	764.0	762.7
17.5°	756.4	748.2	752.2	748.2	747.7
20°	745.2	737.0	741.0	735.4	735.4
22.5°	731.7	723.5	728.1	720.8	720.8
25°	710.2	701.9	705.3	698.9	698.2
27.5°	684.5	676.4	679.9	672.8	672.6
30°	666.0	658.5	662.5	654.8	654.1
32.5°	645.9	638.9	641.8	634.1	633.4
35°	613.5	607.3	609.3	602.3	601.6
37.5°	579.5	573.2	575.4	569.4	569.1
40°	555.4	551.3	551.9	546.9	545.6
42.5°	533.0	528.3	528.9	524.0	523.7
45°	498.6	495.2	495.1	490.2	490.2
47.5°	462.2	459.6	458.9	454.8	454.7
50°	437.0	435.0	434.2	430.7	430.0
52.5°	410.7	409.7	407.3	404.4	404.2
55°	369.8	368.4	364.9	362.8	362.1
57.5°	325.4	322.6	318.7	315.6	316.1
60°	293.4	290.7	285.0	283.6	283.6
62.5°	262.6	259.3	253.7	251.7	252.8
65°	218.5	214.4	209.4	208.0	208.7
67.5°	178.4	174.8	169.3	169.3	168.8
70°	152.7	150.6	146.4	146.4	146.4
72.5°	129.7	128.7	125.6	125.6	125.1
75°	99.4	99.4	98.0	97.3	96.6
77.5°	74.5	74.8	74.1	73.4	72.1
80°	58.8	60.2	59.5	58.8	58.1
82.5°	44.3	45.6	45.5	44.3	44.1
85°	23.1	25.2	25.2	25.2	25.2
87.5°	6.2	8.4	9.0	9.0	9.5
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

TEST NUMBER: P523674

CATALOG NUMBER: SQ4-PP3-050U-050D-92765-1D-UNV-STD-W-4 (4000K)

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)