

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: P523622

Luminaire Tested: **SQ4-PP3-025U-050D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523622
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-PP3-025U-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 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: 4017.4 lumens
Efficiency: N/A
Efficacy: 115.8 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

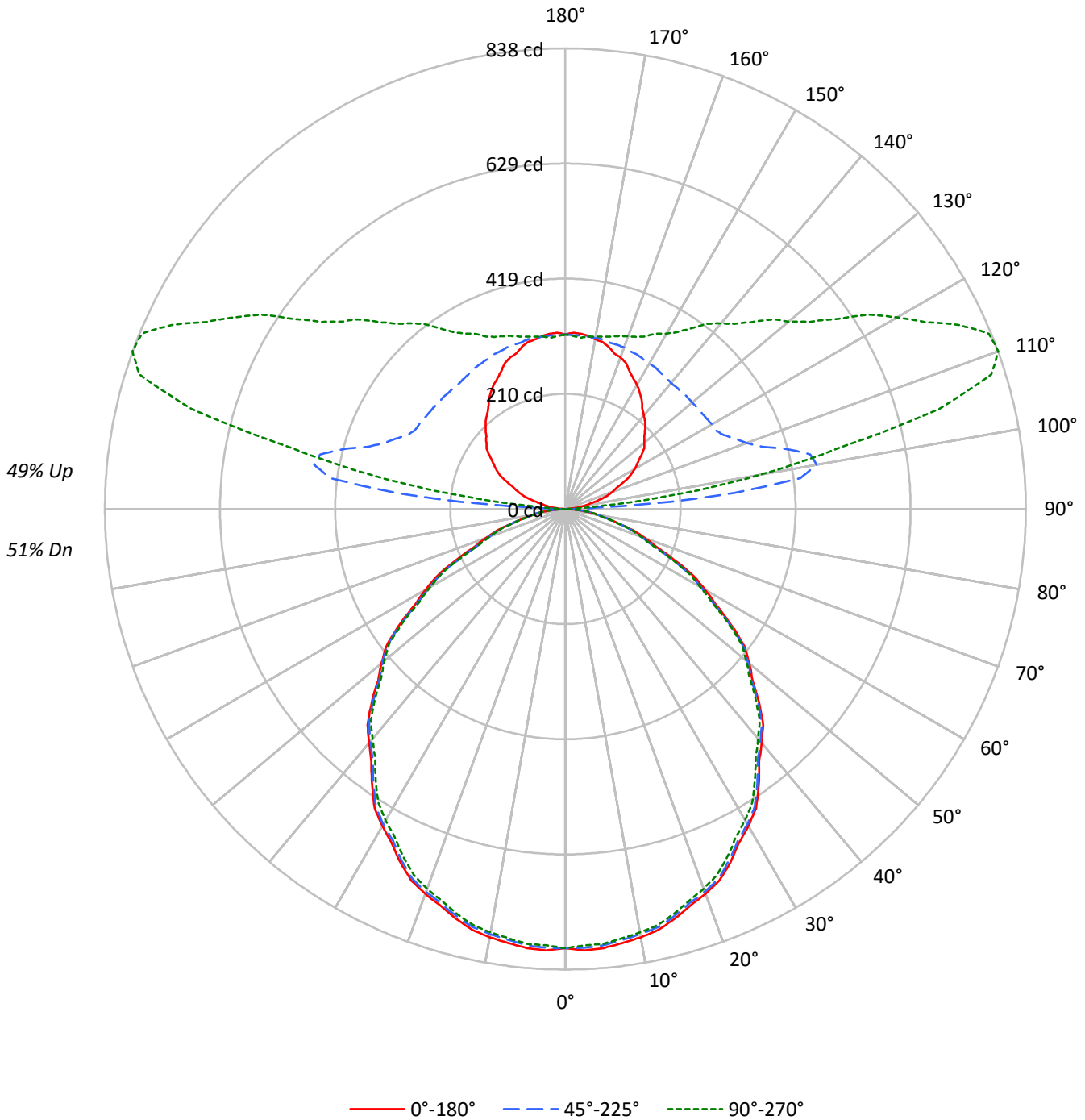
Input Watts (W): 34.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
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	99	99	99	99	84	84	84	70	70	70	57	57	57	51		
1	98	94	90	87	91	87	84	81	74	71	69	62	60	59	51	50	49	43		
2	90	82	76	71	83	76	71	67	65	61	58	54	52	49	45	43	41	37		
3	82	72	65	59	75	67	61	56	57	53	49	48	45	42	40	37	35	31		
4	75	64	56	50	69	60	53	47	51	46	42	43	39	36	36	33	30	27		
5	69	57	49	43	63	53	46	41	46	40	36	39	34	31	32	29	27	23		
6	63	51	43	37	58	48	41	35	41	36	31	35	31	27	29	26	23	21		
7	59	46	38	33	54	43	36	31	37	32	28	32	27	24	27	23	21	18		
8	54	42	34	29	50	39	32	28	34	29	25	29	25	22	24	21	19	16		
9	51	38	31	26	47	36	29	25	31	26	22	27	22	19	23	19	17	15		
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	21	18	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	1.9
10°-20°	215.8	5.4
20°-30°	323.2	8.0
30°-40°	379.1	9.4
40°-50°	380.2	9.5
50°-60°	324.4	8.1
60°-70°	211.5	5.3
70°-80°	106.1	2.6
80°-90°	29.4	0.7
90°-100°	144.7	3.6
100°-110°	411.6	10.2
110°-120°	394.4	9.8
120°-130°	312.1	7.8
130°-140°	250.5	6.2
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°	614.5	15.3
0°-40°	993.6	24.7
0°-60°	1698.2	42.3
0°-90°	2045.2	50.9
90°-120°	950.7	23.7
90°-150°	1709.6	42.6
90°-180°	1972.0	49.1
0°-180°	4017.4	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°	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°	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°	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)