

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: P523623

Luminaire Tested: **SQ4-PP3-025U-050D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523623
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4082.3 lumens
Efficiency: N/A
Efficacy: 117.6 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

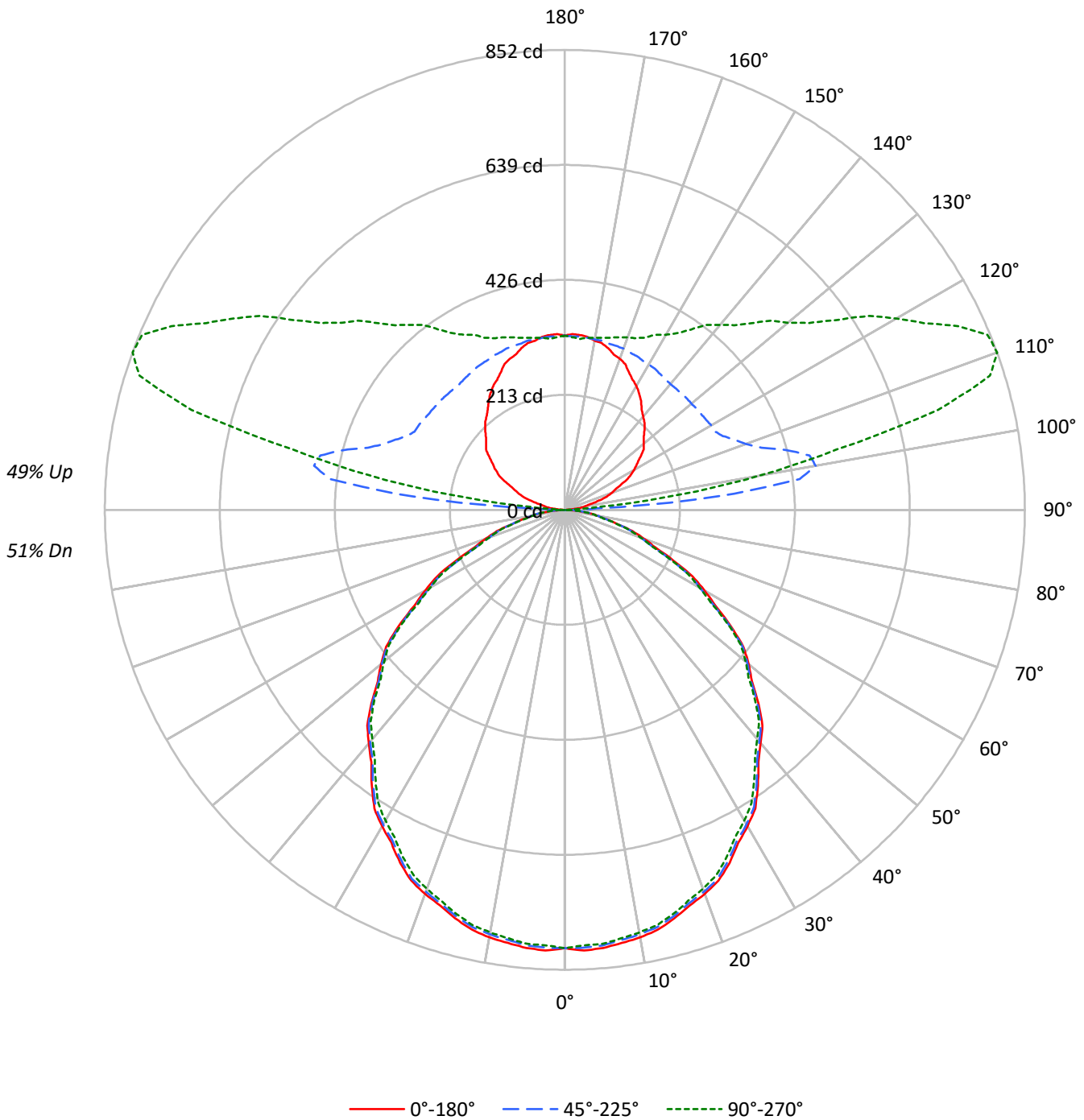
Input Watts (W): 34.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	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	28	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°	7492	7492	7492
5°	7546	7501	7474
10°	7534	7481	7447
15°	7484	7444	7403
20°	7434	7392	7336
25°	7346	7295	7223
30°	7210	7172	7081
35°	7021	6973	6885
40°	6796	6754	6677
45°	6611	6564	6500
50°	6374	6333	6272
55°	6043	5964	5918
60°	5503	5344	5318
65°	4846	4646	4630
70°	4184	4011	4011
75°	3604	3550	3501
80°	3177	3214	3140
85°	2488	2710	2710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	1.9
10°-20°	219.2	5.4
20°-30°	328.4	8.0
30°-40°	385.2	9.4
40°-50°	386.4	9.5
50°-60°	329.6	8.1
60°-70°	215.0	5.3
70°-80°	107.9	2.6
80°-90°	29.9	0.7
90°-100°	147.0	3.6
100°-110°	418.3	10.2
110°-120°	400.8	9.8
120°-130°	317.2	7.8
130°-140°	254.6	6.2
140°-150°	199.3	4.9
150°-160°	145.8	3.6
160°-170°	90.3	2.2
170°-180°	30.7	0.8
0°-30°	624.4	15.3
0°-40°	1009.6	24.7
0°-60°	1725.6	42.3
0°-90°	2078.3	50.9
90°-120°	966.1	23.7
90°-150°	1737.2	42.6
90°-180°	2004.0	49.1
0°-180°	4082.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	812	812	812	812	812	
5°	815	807	810	807	807	77
15°	784	776	779	776	775	221
25°	722	713	717	710	710	332
35°	623	617	619	612	611	389
45°	507	503	503	498	498	390
55°	376	374	371	369	368	334
65°	222	218	213	211	212	222
75°	101	101	100	99	98	110
85°	24	26	26	26	26	28
90°	0	0	0	0	0	2
95°	16	63	285	98	61	18
105°	65	99	426	753	716	69
115°	121	146	323	685	804	119
125°	170	189	308	512	612	153
135°	208	226	305	432	489	161
145°	246	258	307	374	408	154
155°	281	288	315	338	352	130
165°	310	312	318	325	330	87
175°	325	323	322	320	318	31
180°	323	323	323	323	323	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	812.0	812.0	812.0	812.0	812.0
2.5°	817.1	810.4	812.0	810.8	807.4
5°	814.8	807.2	809.9	807.0	807.0
7.5°	809.3	800.9	803.6	800.7	800.6
10°	804.2	795.8	798.5	795.6	794.9
12.5°	796.8	788.4	791.6	788.2	788.1
15°	783.5	775.9	779.3	776.4	775.0
17.5°	768.6	760.2	764.3	760.3	759.8
20°	757.2	748.8	752.9	747.2	747.2
22.5°	743.5	735.2	739.8	732.4	732.4
25°	721.6	713.3	716.6	710.2	709.5
27.5°	695.6	687.4	690.9	683.6	683.5
30°	676.8	669.1	673.2	665.4	664.7
32.5°	656.3	649.2	652.2	644.3	643.6
35°	623.4	617.1	619.1	612.0	611.3
37.5°	588.8	582.4	584.7	578.6	578.3
40°	564.3	560.2	560.8	555.8	554.4
42.5°	541.6	536.8	537.4	532.4	532.2
45°	506.7	503.2	503.1	498.2	498.2
47.5°	469.7	467.0	466.3	462.1	462.0
50°	444.1	442.0	441.2	437.6	437.0
52.5°	417.3	416.3	413.9	410.9	410.8
55°	375.7	374.4	370.8	368.6	367.9
57.5°	330.6	327.8	323.8	320.7	321.2
60°	298.2	295.4	289.6	288.2	288.2
62.5°	266.9	263.5	257.8	255.8	256.9
65°	222.0	217.9	212.8	211.4	212.1
67.5°	181.3	177.6	172.1	172.1	171.5
70°	155.1	153.1	148.7	148.7	148.7
72.5°	131.8	130.8	127.7	127.7	127.1
75°	101.1	101.1	99.6	98.9	98.2
77.5°	75.7	76.0	75.3	74.6	73.3
80°	59.8	61.2	60.5	59.8	59.1
82.5°	45.0	46.4	46.3	45.0	44.8
85°	23.5	25.6	25.6	25.6	25.6
87.5°	6.3	8.5	9.1	9.1	9.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.9	26.0	60.4	17.6	13.2
95°	15.9	63.3	284.6	98.5	60.7
97.5°	29.3	74.2	438.3	313.6	214.9
100°	38.6	80.6	471.7	477.7	368.0
102.5°	48.9	87.6	464.3	611.5	515.7
105°	65.0	98.6	426.3	752.9	715.8
107.5°	81.3	111.4	381.9	792.8	825.9
110°	92.6	120.8	356.3	777.6	851.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	103.4	130.2	339.2	741.5	847.5
115°	120.8	146.0	323.2	684.7	804.1
117.5°	136.2	159.8	313.8	622.7	749.1
120°	148.4	168.2	312.8	587.3	708.4
122.5°	158.2	178.0	310.3	556.2	668.7
125°	170.5	189.1	308.5	512.0	612.1
127.5°	183.9	201.3	307.5	485.6	568.1
130°	190.7	208.1	306.1	467.2	539.1
132.5°	198.1	215.0	306.1	452.8	519.0
135°	208.5	225.9	304.8	432.5	488.8
137.5°	218.3	235.3	304.7	415.2	463.9
140°	225.7	243.1	304.2	401.0	447.7
142.5°	234.0	248.6	305.7	389.6	431.5
145°	245.9	258.5	307.3	374.3	407.9
147.5°	256.1	268.4	310.0	358.8	387.9
150°	265.0	273.4	311.0	353.7	374.1
152.5°	271.8	280.7	311.9	346.8	365.8
155°	280.9	287.5	314.6	338.3	352.1
157.5°	292.2	296.2	315.3	334.4	344.2
160°	298.1	301.1	317.7	331.4	339.8
162.5°	301.5	305.0	318.2	328.9	335.4
165°	310.3	311.5	318.3	325.2	330.0
167.5°	316.4	315.3	321.1	324.3	326.2
170°	318.3	317.7	320.2	320.8	323.2
172.5°	322.7	320.7	321.6	319.8	321.8
175°	325.1	323.3	322.0	320.1	317.7
177.5°	326.0	323.2	321.6	319.7	320.2
180°	322.6	322.6	322.6	322.6	322.6

(END OF REPORT)