

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: P562148

Luminaire Tested: **SQ4-PW1-025U-050D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562148
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-PW1-025U-050D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4202.4 lumens
Efficiency: N/A
Efficacy: 122.2 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

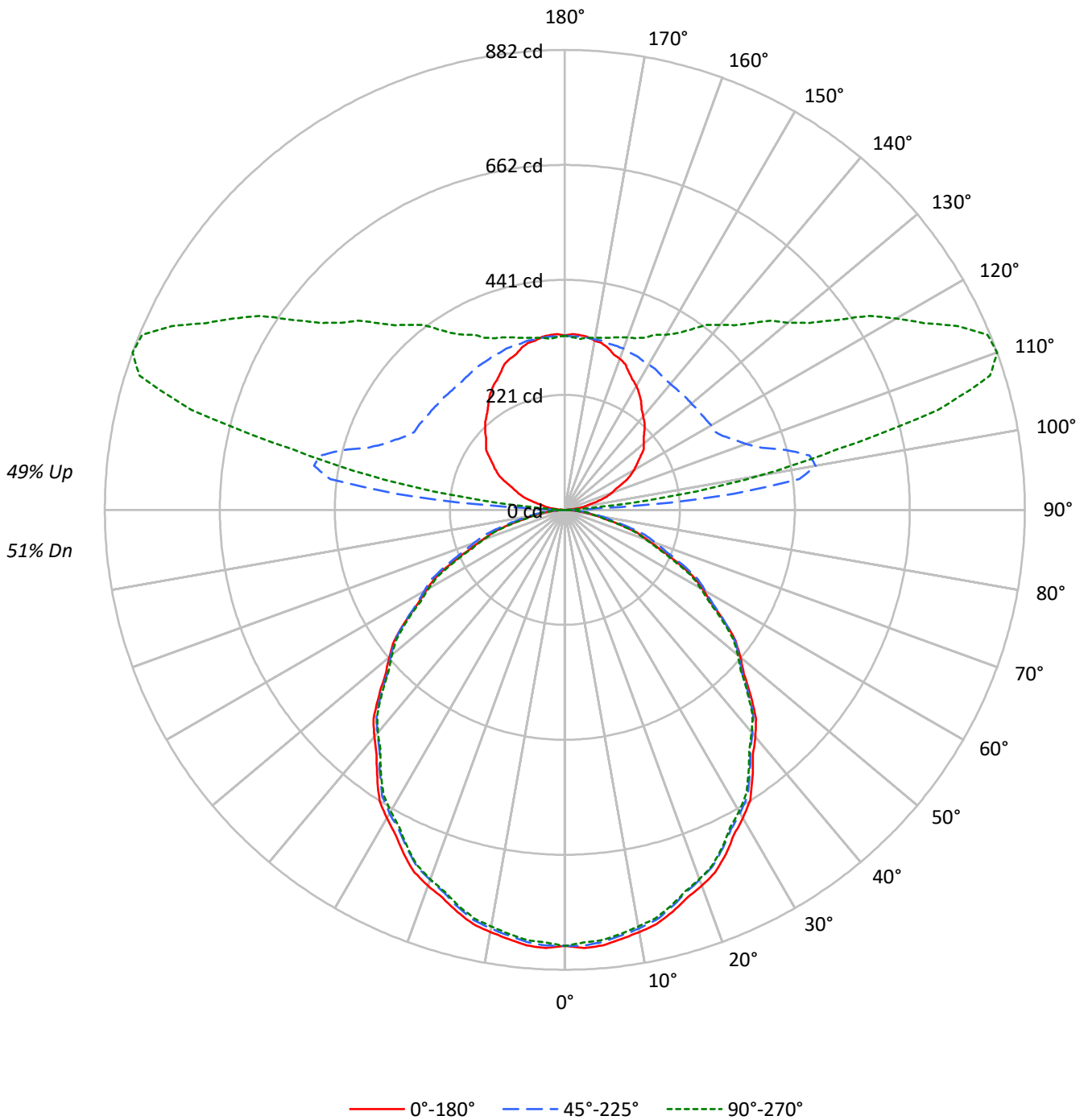
Input Watts (W): 34.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	86	90	87	83	80	74	71	69	61	60	58	50	49	48	43
2	89	82	76	71	82	76	71	66	65	61	57	54	51	49	44	42	41	36
3	82	72	65	59	75	67	60	55	57	52	48	48	44	41	39	37	35	31
4	75	64	56	50	69	59	52	47	51	45	41	43	39	35	35	32	30	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	32	29	26	23
6	63	51	43	37	58	48	40	35	41	35	31	35	30	27	29	26	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16
9	50	38	31	26	47	36	29	24	31	26	22	27	22	19	22	19	17	14
10	47	35	28	23	44	33	26	22	29	23	20	24	20	17	21	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7716	7716	7716
5°	7766	7705	7670
10°	7704	7642	7601
15°	7622	7538	7510
20°	7532	7416	7401
25°	7426	7291	7269
30°	7269	7159	7112
35°	7063	6963	6921
40°	6842	6736	6710
45°	6576	6490	6461
50°	6304	6251	6208
55°	6010	6010	5915
60°	5643	5752	5547
65°	5163	5421	5034
70°	4551	4990	4432
75°	3889	4467	3782
80°	3013	3756	3055
85°	1948	2890	2572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	1.9
10°-20°	222.3	5.3
20°-30°	329.8	7.8
30°-40°	385.9	9.2
40°-50°	384.2	9.1
50°-60°	331.8	7.9
60°-70°	238.8	5.7
70°-80°	125.2	3.0
80°-90°	31.1	0.7
90°-100°	152.2	3.6
100°-110°	433.0	10.3
110°-120°	414.9	9.9
120°-130°	328.4	7.8
130°-140°	263.6	6.3
140°-150°	206.3	4.9
150°-160°	151.0	3.6
160°-170°	93.5	2.2
170°-180°	31.7	0.8
0°-30°	630.9	15.0
0°-40°	1016.8	24.2
0°-60°	1732.8	41.2
0°-90°	2127.9	50.6
90°-120°	1000.1	23.8
90°-150°	1798.3	42.8
90°-180°	2075.0	49.4
0°-180°	4202.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	838	829	832	830	828	79
15°	798	788	789	788	786	225
25°	730	717	716	712	714	335
35°	627	618	618	612	614	392
45°	504	500	497	496	495	389
55°	374	373	374	368	368	333
65°	236	244	248	239	231	234
75°	109	119	125	117	106	117
85°	18	24	27	26	24	24
90°	0	0	0	0	0	1
95°	16	66	295	102	63	19
105°	67	102	441	779	741	71
115°	125	151	335	709	832	123
125°	176	196	319	530	634	158
135°	216	234	316	448	506	167
145°	255	268	318	388	422	159
155°	291	298	326	350	364	134
165°	321	322	330	337	342	90
175°	336	335	333	331	329	32
180°	334	334	334	334	334	

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CATALOG NUMBER: SQ4-PW1-025U-050D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	836.3	836.3	836.3	836.3	836.3
2.5°	841.1	834.1	836.3	834.5	830.4
5°	838.5	829.2	831.9	829.7	828.2
7.5°	830.0	821.4	823.4	821.0	820.1
10°	822.3	813.7	815.7	812.7	811.3
12.5°	813.5	804.3	806.3	803.3	802.4
15°	798.0	787.9	789.2	787.7	786.2
17.5°	780.0	769.8	770.0	767.7	767.4
20°	767.1	756.3	755.3	752.4	753.8
22.5°	752.9	741.5	740.5	736.5	738.5
25°	729.5	717.2	716.2	711.9	714.0
27.5°	702.4	690.3	690.3	684.2	686.5
30°	682.3	670.8	672.0	664.7	667.6
32.5°	661.1	650.7	651.4	644.1	647.0
35°	627.1	618.4	618.2	612.4	614.5
37.5°	592.3	584.7	583.4	580.1	580.6
40°	568.1	561.6	559.3	557.1	557.1
42.5°	542.8	536.9	534.5	532.9	532.3
45°	504.0	499.7	497.4	495.9	495.2
47.5°	465.7	461.7	459.7	458.6	457.9
50°	439.2	436.3	435.5	433.3	432.5
52.5°	412.6	410.9	410.1	407.3	406.6
55°	373.6	372.9	373.6	368.4	367.7
57.5°	332.9	334.1	336.5	329.5	327.8
60°	305.8	308.7	311.7	303.5	300.6
62.5°	278.1	282.7	286.9	277.6	273.5
65°	236.5	243.7	248.3	238.6	230.6
67.5°	196.4	205.4	210.9	200.4	191.4
70°	168.7	178.8	185.0	174.4	164.3
72.5°	144.6	155.8	160.8	150.8	140.7
75°	109.1	119.1	125.3	116.9	106.1
77.5°	77.4	86.9	92.0	84.7	75.7
80°	56.7	66.8	70.7	64.7	57.5
82.5°	40.2	48.6	51.3	47.6	42.7
85°	18.4	24.2	27.3	25.8	24.3
87.5°	4.7	8.8	11.2	11.2	11.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.1	26.9	62.5	18.2	13.7
95°	16.5	65.6	294.6	102.0	62.9
97.5°	30.3	76.8	453.7	324.7	222.5
100°	40.0	83.5	488.3	494.6	381.0
102.5°	50.7	90.6	480.6	633.0	533.8
105°	67.3	102.1	441.3	779.4	740.9
107.5°	84.2	115.4	395.3	820.7	855.0
110°	95.9	125.1	368.9	804.9	881.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.0	134.7	351.1	767.6	877.3
115°	125.1	151.2	334.6	708.8	832.4
117.5°	141.0	165.4	324.8	644.6	775.5
120°	153.7	174.1	323.8	607.9	733.3
122.5°	163.8	184.3	321.3	575.7	692.2
125°	176.5	195.8	319.4	530.0	633.6
127.5°	190.3	208.4	318.3	502.6	588.1
130°	197.5	215.5	316.8	483.6	558.1
132.5°	205.1	222.6	316.8	468.7	537.3
135°	215.9	233.9	315.6	447.7	506.0
137.5°	226.0	243.5	315.4	429.8	480.3
140°	233.7	251.7	314.9	415.1	463.5
142.5°	242.3	257.3	316.4	403.3	446.7
145°	254.6	267.6	318.1	387.5	422.2
147.5°	265.1	277.8	320.9	371.5	401.5
150°	274.3	283.0	321.9	366.2	387.3
152.5°	281.4	290.6	322.9	359.0	378.7
155°	290.8	297.6	325.7	350.2	364.4
157.5°	302.5	306.6	326.3	346.1	356.3
160°	308.6	311.7	328.9	343.1	351.7
162.5°	312.1	315.7	329.4	340.5	347.2
165°	321.3	322.5	329.5	336.6	341.6
167.5°	327.5	326.4	332.4	335.7	337.6
170°	329.5	328.9	331.4	332.1	334.6
172.5°	334.1	332.0	333.0	331.1	333.1
175°	336.5	334.6	333.3	331.4	328.9
177.5°	337.5	334.5	333.0	330.9	331.4
180°	334.0	334.0	334.0	334.0	334.0

(END OF REPORT)