

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: P562146

Luminaire Tested: **SQ4-PW1-025U-050D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562146
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4104.4 lumens
Efficiency: N/A
Efficacy: 118.3 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

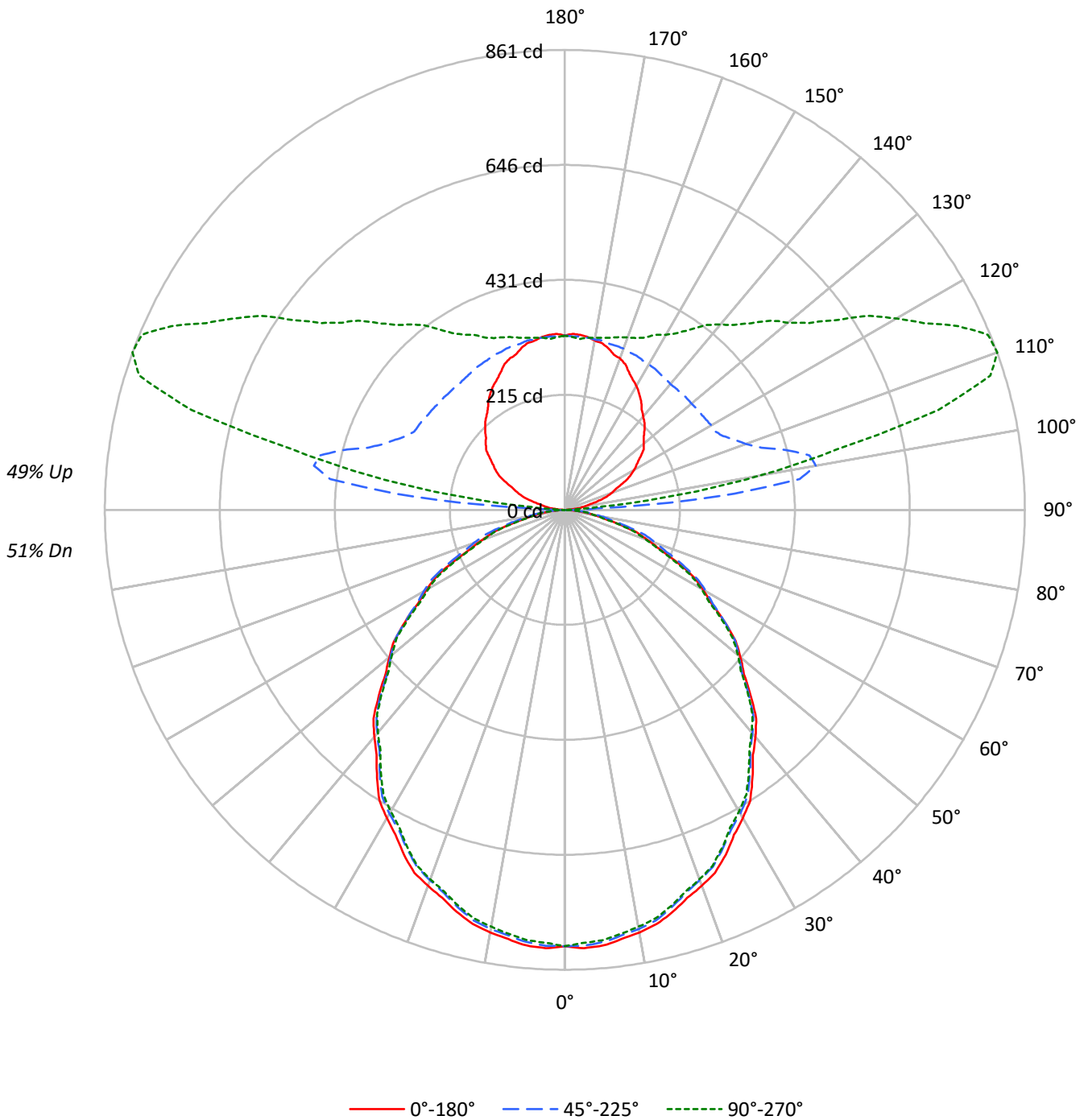
Input Watts (W): 34.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	7536	7536	7536
5°	7585	7525	7492
10°	7525	7464	7424
15°	7445	7362	7335
20°	7356	7243	7228
25°	7253	7121	7100
30°	7099	6993	6946
35°	6899	6801	6760
40°	6683	6578	6553
45°	6423	6339	6310
50°	6156	6105	6064
55°	5870	5870	5776
60°	5512	5617	5418
65°	5043	5294	4919
70°	4446	4872	4330
75°	3796	4360	3693
80°	2943	3671	2981
85°	1905	2816	2509



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	1.9
10°-20°	217.2	5.3
20°-30°	322.1	7.8
30°-40°	376.9	9.2
40°-50°	375.2	9.1
50°-60°	324.0	7.9
60°-70°	233.2	5.7
70°-80°	122.3	3.0
80°-90°	30.3	0.7
90°-100°	148.6	3.6
100°-110°	422.9	10.3
110°-120°	405.2	9.9
120°-130°	320.7	7.8
130°-140°	257.4	6.3
140°-150°	201.5	4.9
150°-160°	147.4	3.6
160°-170°	91.3	2.2
170°-180°	31.0	0.8
0°-30°	616.2	15.0
0°-40°	993.1	24.2
0°-60°	1692.4	41.2
0°-90°	2078.3	50.6
90°-120°	976.8	23.8
90°-150°	1756.4	42.8
90°-180°	2026.0	49.4
0°-180°	4104.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	819	810	812	810	809	78
15°	779	770	771	769	768	220
25°	712	700	700	695	697	328
35°	612	604	604	598	600	383
45°	492	488	486	484	484	380
55°	365	364	365	360	359	326
65°	231	238	242	233	225	229
75°	106	116	122	114	104	114
85°	18	24	27	25	24	24
90°	0	0	0	0	0	1
95°	16	64	288	100	61	18
105°	66	100	431	761	724	70
115°	122	148	327	692	813	120
125°	172	191	312	518	619	154
135°	211	228	308	437	494	163
145°	249	261	311	378	412	155
155°	284	291	318	342	356	131
165°	314	315	322	329	334	88
175°	329	327	326	324	321	31
180°	326	326	326	326	326	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	816.8	816.8	816.8	816.8	816.8
2.5°	821.5	814.7	816.8	815.0	811.1
5°	819.0	809.9	812.5	810.3	808.9
7.5°	810.7	802.2	804.2	801.9	801.0
10°	803.2	794.7	796.7	793.8	792.4
12.5°	794.5	785.5	787.5	784.6	783.7
15°	779.4	769.6	770.8	769.3	767.9
17.5°	761.9	751.9	752.1	749.8	749.5
20°	749.2	738.6	737.7	734.8	736.2
22.5°	735.4	724.3	723.3	719.3	721.3
25°	712.5	700.5	699.5	695.3	697.4
27.5°	686.0	674.2	674.2	668.2	670.5
30°	666.4	655.2	656.4	649.2	652.0
32.5°	645.7	635.6	636.2	629.1	631.9
35°	612.5	604.0	603.8	598.1	600.2
37.5°	578.5	571.0	569.9	566.6	567.1
40°	554.9	548.5	546.2	544.1	544.1
42.5°	530.1	524.4	522.1	520.5	519.9
45°	492.3	488.0	485.8	484.3	483.6
47.5°	454.8	450.9	448.9	447.9	447.2
50°	428.9	426.1	425.3	423.2	422.5
52.5°	403.0	401.3	400.6	397.8	397.1
55°	364.9	364.2	364.9	359.8	359.1
57.5°	325.2	326.3	328.6	321.8	320.1
60°	298.7	301.5	304.4	296.4	293.6
62.5°	271.6	276.1	280.2	271.1	267.1
65°	231.0	238.1	242.5	233.0	225.3
67.5°	191.9	200.6	206.0	195.7	187.0
70°	164.8	174.7	180.6	170.3	160.5
72.5°	141.2	152.2	157.0	147.3	137.5
75°	106.5	116.4	122.3	114.2	103.6
77.5°	75.6	84.9	89.8	82.7	74.0
80°	55.4	65.3	69.1	63.2	56.1
82.5°	39.3	47.5	50.1	46.5	41.7
85°	18.0	23.6	26.6	25.2	23.7
87.5°	4.6	8.5	10.9	11.0	11.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.0	26.3	61.0	17.8	13.4
95°	16.1	64.0	287.7	99.6	61.4
97.5°	29.6	75.0	443.1	317.1	217.3
100°	39.1	81.5	476.9	483.0	372.1
102.5°	49.5	88.5	469.4	618.3	521.4
105°	65.7	99.7	431.0	761.3	723.7
107.5°	82.2	112.7	386.1	801.6	835.1
110°	93.6	122.1	360.3	786.2	861.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	104.6	131.6	342.9	749.7	856.9
115°	122.2	147.6	326.8	692.3	813.0
117.5°	137.7	161.6	317.3	629.6	757.4
120°	150.1	170.1	316.3	593.8	716.2
122.5°	160.0	180.0	313.8	562.3	676.1
125°	172.4	191.2	311.9	517.6	618.9
127.5°	185.9	203.5	310.9	490.9	574.4
130°	192.9	210.4	309.4	472.3	545.1
132.5°	200.3	217.4	309.4	457.8	524.7
135°	210.8	228.4	308.2	437.2	494.2
137.5°	220.8	237.9	308.1	419.8	469.1
140°	228.2	245.8	307.6	405.4	452.7
142.5°	236.6	251.3	309.1	393.9	436.3
145°	248.7	261.4	310.7	378.4	412.4
147.5°	259.0	271.3	313.4	362.8	392.2
150°	267.9	276.4	314.4	357.7	378.3
152.5°	274.8	283.8	315.4	350.7	369.8
155°	284.0	290.7	318.1	342.0	355.9
157.5°	295.4	299.4	318.7	338.1	348.0
160°	301.4	304.4	321.2	335.1	343.5
162.5°	304.9	308.4	321.7	332.5	339.1
165°	313.8	315.0	321.8	328.8	333.6
167.5°	319.9	318.8	324.7	327.8	329.8
170°	321.8	321.2	323.7	324.4	326.8
172.5°	326.3	324.2	325.2	323.4	325.3
175°	328.7	326.8	325.6	323.6	321.2
177.5°	329.7	326.7	325.2	323.2	323.7
180°	326.2	326.2	326.2	326.2	326.2

(END OF REPORT)