

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: P561782

Luminaire Tested: **SQ4-PR1-025U-050D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561782
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-025U-050D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE 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: 4115.0 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

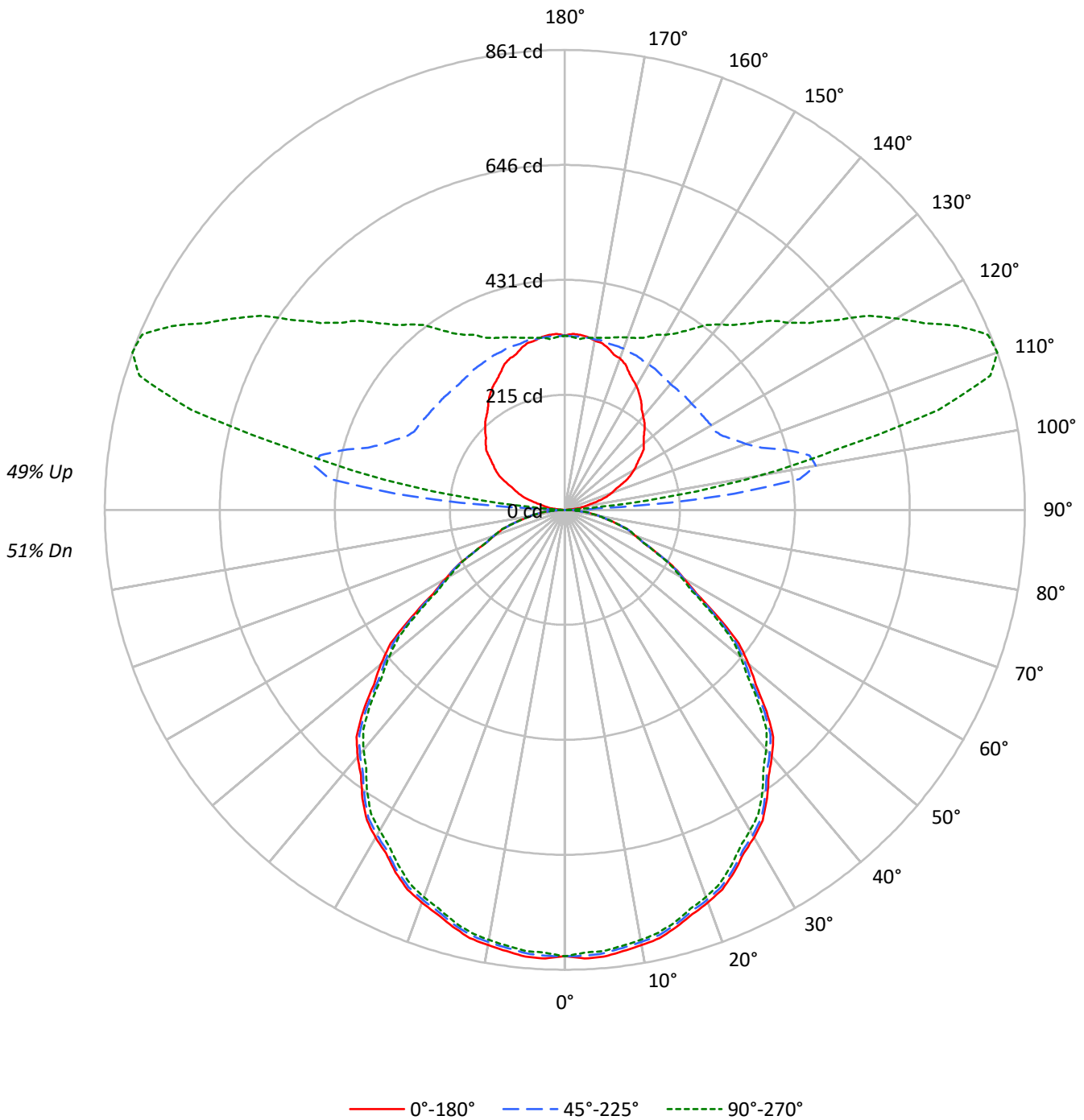
Input Watts (W): 34.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	72	69	62	60	59	51	50	49	43
2	90	82	76	71	83	76	71	67	65	61	58	55	52	49	45	43	41	37
3	82	73	66	60	75	67	61	56	58	53	49	49	45	42	40	38	36	31
4	75	65	57	51	69	60	53	48	51	46	42	43	39	36	36	33	31	27
5	69	58	50	44	64	54	47	41	46	41	36	39	35	32	33	29	27	24
6	64	52	44	38	59	48	41	36	42	36	32	35	31	28	30	26	24	21
7	59	47	39	33	54	44	37	32	38	32	28	32	28	25	27	24	21	19
8	55	42	35	30	50	40	33	28	34	29	25	29	25	22	25	22	19	17
9	51	39	31	26	47	36	30	25	32	26	22	27	23	20	23	20	17	15
10	48	36	28	24	44	33	27	22	29	24	20	25	21	18	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7709	7709	7709
5°	7779	7718	7679
10°	7753	7700	7660
15°	7720	7672	7631
20°	7681	7632	7575
25°	7627	7576	7487
30°	7545	7490	7384
35°	7434	7368	7262
40°	7264	7185	7055
45°	6968	6846	6705
50°	6446	6291	6168
55°	5627	5500	5384
60°	4740	4702	4608
65°	4100	4117	4085
70°	3766	3785	3785
75°	3618	3618	3643
80°	3406	3443	3406
85°	2742	3049	3049



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	1.9
10°-20°	226.1	5.5
20°-30°	341.0	8.3
30°-40°	406.3	9.9
40°-50°	400.6	9.7
50°-60°	306.1	7.4
60°-70°	189.4	4.6
70°-80°	107.6	2.6
80°-90°	32.7	0.8
90°-100°	148.6	3.6
100°-110°	422.9	10.3
110°-120°	405.2	9.8
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°	646.1	15.7
0°-40°	1052.3	25.6
0°-60°	1759.0	42.7
0°-90°	2088.8	50.8
90°-120°	976.8	23.7
90°-150°	1756.4	42.7
90°-180°	2026.0	49.2
0°-180°	4115.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	840	831	833	830	829	80
15°	808	800	803	800	799	228
25°	749	740	744	736	736	345
35°	660	652	654	646	645	412
45°	534	527	525	515	514	409
55°	350	344	342	336	335	313
65°	188	186	189	187	187	190
75°	102	102	102	102	102	107
85°	26	27	29	29	29	30
90°	0	0	0	0	0	2
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°	835.6	835.6	835.6	835.6	835.6
2.5°	840.7	833.4	835.6	833.7	829.8
5°	839.9	830.7	833.4	830.5	829.1
7.5°	833.4	824.4	827.1	824.2	823.3
10°	827.6	819.2	821.9	819.0	817.6
12.5°	821.3	812.3	815.6	812.1	810.7
15°	808.2	799.8	803.2	800.3	798.9
17.5°	793.8	784.8	788.2	784.8	783.0
20°	782.3	773.9	777.3	772.2	771.5
22.5°	769.6	761.2	764.6	757.8	757.7
25°	749.2	740.0	744.2	736.2	735.5
27.5°	724.9	716.4	719.8	711.8	710.9
30°	708.2	699.7	703.1	694.5	693.1
32.5°	689.2	681.3	684.1	675.5	674.6
35°	660.0	652.2	654.2	645.5	644.8
37.5°	626.7	619.7	620.8	611.3	610.6
40°	603.1	596.1	596.6	586.5	585.8
42.5°	577.2	570.2	569.6	559.5	558.8
45°	534.0	527.0	524.7	515.3	513.9
47.5°	484.8	477.7	473.4	465.8	464.8
50°	449.1	442.0	438.3	431.8	429.7
52.5°	410.5	403.5	400.3	394.3	392.2
55°	349.8	344.1	341.9	336.1	334.7
57.5°	292.0	288.2	287.6	282.0	281.4
60°	256.9	254.8	254.8	249.7	249.7
62.5°	227.0	225.4	226.6	223.2	222.7
65°	187.8	186.4	188.6	187.1	187.1
67.5°	156.9	156.9	158.2	157.6	157.6
70°	139.6	139.6	140.3	140.3	140.3
72.5°	124.1	123.5	125.4	125.4	124.8
75°	101.5	101.5	101.5	102.2	102.2
77.5°	79.0	79.2	79.7	79.6	79.0
80°	64.1	64.8	64.8	64.1	64.1
82.5°	49.1	49.8	49.8	49.6	49.1
85°	25.9	27.3	28.8	28.8	28.8
87.5°	7.5	9.7	11.5	11.5	10.9
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)