

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: P563962

Luminaire Tested: **SQ4-PR1-050U-050D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563962
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PR1-050U-050D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3415.5 lumens
Efficiency: N/A
Efficacy: 119.8 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

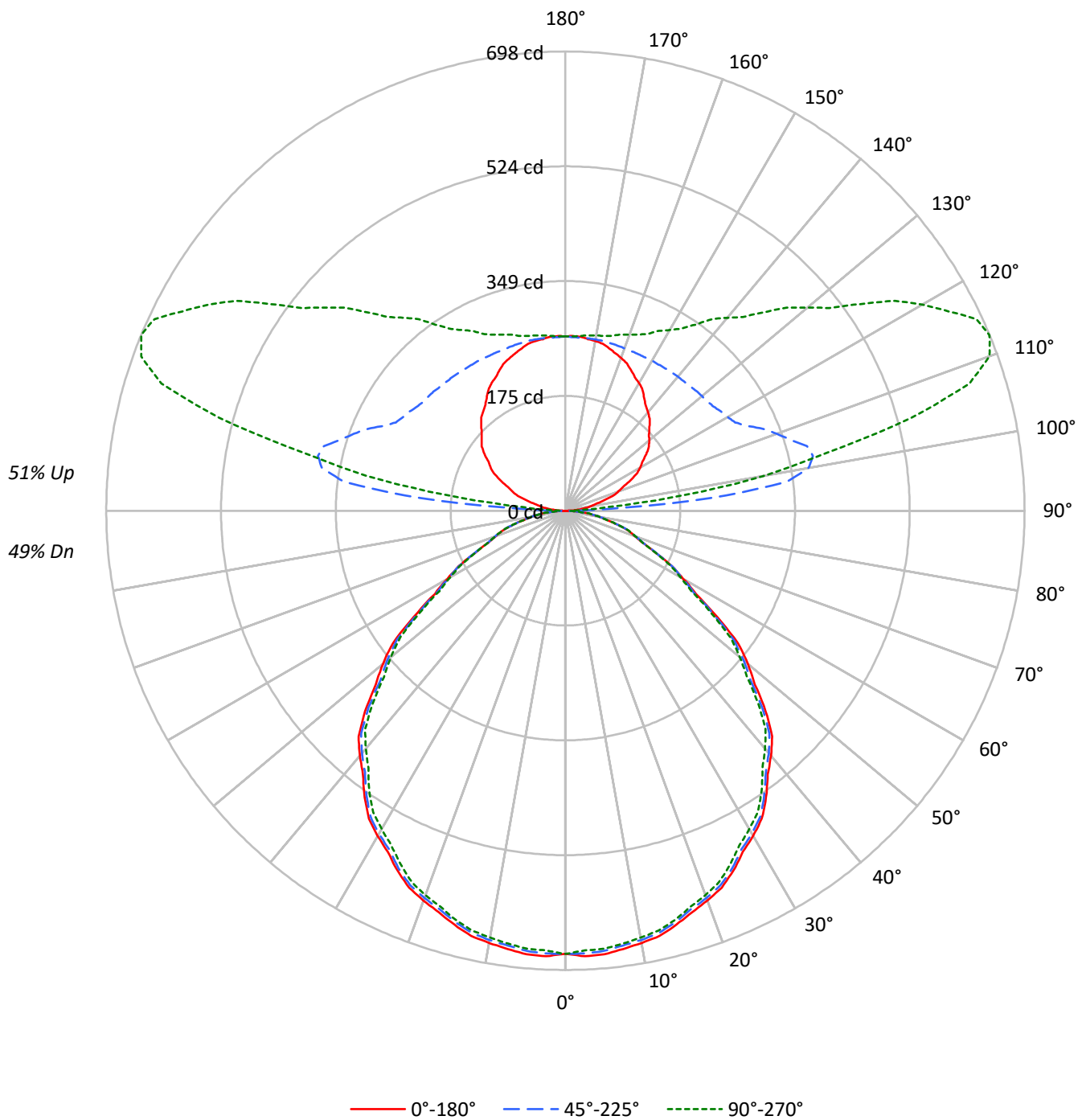
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	98	94	90	86	90	87	83	80	73	71	69	61	59	58	49	48	47
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40
3	82	72	65	60	75	67	61	56	57	52	48	48	44	41	39	37	35
4	75	64	56	51	69	60	53	48	51	46	42	43	39	36	35	32	30
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26
6	63	51	43	38	58	48	41	36	41	36	31	35	31	27	29	26	23
7	59	47	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17
10	47	35	28	23	44	33	27	22	29	24	20	25	20	18	21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6214	6214	6214
5°	6270	6222	6189
10°	6250	6207	6174
15°	6223	6184	6150
20°	6191	6151	6106
25°	6148	6107	6036
30°	6081	6038	5952
35°	5992	5939	5855
40°	5855	5792	5687
45°	5617	5518	5404
50°	5196	5071	4971
55°	4534	4433	4340
60°	3821	3790	3714
65°	3305	3318	3292
70°	3035	3051	3051
75°	2916	2916	2937
80°	2742	2773	2742
85°	2212	2456	2456

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.7	1.9
10°-20°	182.2	5.3
20°-30°	274.9	8.0
30°-40°	327.5	9.6
40°-50°	322.9	9.5
50°-60°	246.8	7.2
60°-70°	152.7	4.5
70°-80°	86.7	2.5
80°-90°	27.4	0.8
90°-100°	127.2	3.7
100°-110°	345.7	10.1
110°-120°	355.4	10.4
120°-130°	284.2	8.3
130°-140°	223.3	6.5
140°-150°	171.2	5.0
150°-160°	123.1	3.6
160°-170°	75.3	2.2
170°-180°	25.4	0.7
0°-30°	520.8	15.2
0°-40°	848.3	24.8
0°-60°	1417.9	41.5
0°-90°	1684.8	49.3
90°-120°	828.3	24.3
90°-150°	1507.0	44.1
90°-180°	1731.0	50.7
0°-180°	3415.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	674	674	674	674	674	
5°	677	670	672	669	668	64
15°	652	645	647	645	644	184
25°	604	596	600	594	593	278
35°	532	526	527	520	520	332
45°	430	425	423	415	414	330
55°	282	277	276	271	270	253
65°	151	150	152	151	151	153
75°	82	82	82	82	82	86
85°	21	22	23	23	23	24
90°	1	3	6	8	8	2
95°	19	70	222	96	65	20
105°	61	96	380	579	545	65
115°	109	132	304	605	690	108
125°	150	171	275	464	547	134
135°	181	201	268	378	426	140
145°	209	224	264	321	345	131
155°	236	244	262	288	297	109
165°	256	259	263	274	275	72
175°	265	266	264	268	267	25
180°	265	265	265	265	265	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	673.5	673.5	673.5	673.5	673.5
2.5°	677.7	671.8	673.5	672.1	668.9
5°	677.0	669.6	671.8	669.4	668.3
7.5°	671.8	664.5	666.7	664.3	663.7
10°	667.1	660.3	662.5	660.2	659.0
12.5°	662.0	654.8	657.4	654.6	653.5
15°	651.5	644.7	647.4	645.1	643.9
17.5°	639.9	632.6	635.4	632.7	631.2
20°	630.6	623.8	626.5	622.5	621.9
22.5°	620.4	613.6	616.3	610.9	610.8
25°	603.9	596.5	599.9	593.5	592.9
27.5°	584.3	577.5	580.2	573.7	573.1
30°	570.8	564.0	566.8	559.8	558.7
32.5°	555.5	549.2	551.5	544.5	543.8
35°	532.0	525.7	527.3	520.4	519.8
37.5°	505.2	499.5	500.4	492.7	492.2
40°	486.1	480.5	480.9	472.8	472.2
42.5°	465.3	459.6	459.1	451.0	450.4
45°	430.5	424.8	422.9	415.3	414.2
47.5°	390.8	385.1	381.6	375.4	374.6
50°	362.0	356.3	353.3	348.0	346.3
52.5°	330.9	325.2	322.7	317.9	316.2
55°	281.9	277.4	275.6	270.9	269.8
57.5°	235.4	232.4	231.8	227.3	226.8
60°	207.1	205.4	205.4	201.3	201.3
62.5°	183.0	181.7	182.6	179.9	179.5
65°	151.4	150.3	152.0	150.8	150.8
67.5°	126.5	126.5	127.5	127.0	127.0
70°	112.5	112.5	113.1	113.1	113.1
72.5°	100.0	99.6	101.1	101.0	100.6
75°	81.8	81.8	81.8	82.4	82.4
77.5°	63.7	63.8	64.3	64.2	63.7
80°	51.6	52.2	52.2	51.6	51.6
82.5°	39.6	40.1	40.1	40.0	39.6
85°	20.9	22.0	23.2	23.2	23.2
87.5°	6.2	8.5	10.5	10.8	10.4
90°	0.9	3.4	6.0	7.7	7.7
92.5°	7.7	34.8	60.5	26.0	22.0
95°	18.8	69.6	221.6	96.4	64.8
97.5°	31.0	76.9	339.7	264.3	185.6
100°	39.2	81.7	375.9	381.0	307.7
102.5°	47.4	86.6	385.4	471.2	406.6
105°	61.4	95.5	380.1	578.8	544.6
107.5°	75.9	106.0	358.2	634.4	643.9
110°	86.1	113.6	341.8	645.3	686.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	95.0	121.1	325.4	636.2	697.7
115°	109.1	132.4	304.3	605.4	689.5
117.5°	122.4	144.7	290.8	561.6	656.5
120°	131.3	152.9	284.7	532.3	626.5
122.5°	138.8	160.4	280.6	502.9	593.7
125°	150.0	170.8	275.3	463.9	547.2
127.5°	160.1	180.7	272.4	434.3	505.8
130°	166.2	186.2	271.0	415.7	479.9
132.5°	172.3	192.3	269.7	399.8	456.7
135°	180.7	200.7	267.6	377.8	426.2
137.5°	189.7	207.9	266.6	358.4	399.1
140°	195.2	212.7	265.9	346.0	382.7
142.5°	200.6	216.8	265.2	336.3	367.0
145°	208.8	223.8	264.2	321.0	345.2
147.5°	218.0	230.9	263.4	309.0	328.0
150°	224.2	235.0	263.4	302.1	317.1
152.5°	228.9	238.4	262.7	295.9	308.2
155°	236.1	244.4	262.5	288.3	296.6
157.5°	243.1	249.6	262.5	283.1	289.5
160°	247.2	253.0	262.5	279.7	284.7
162.5°	251.3	255.8	263.2	276.9	280.6
165°	255.7	259.0	263.4	274.5	275.3
167.5°	260.3	262.0	264.2	271.6	272.2
170°	261.7	263.3	264.2	270.2	270.2
172.5°	263.0	264.0	264.2	268.8	268.8
175°	265.1	265.9	264.2	267.6	266.8
177.5°	265.8	265.8	263.7	266.4	265.1
180°	265.1	265.1	265.1	265.1	265.1

(END OF REPORT)