

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: P563290

Luminaire Tested: **SQ4-PP3-050U-050D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563290
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-050D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

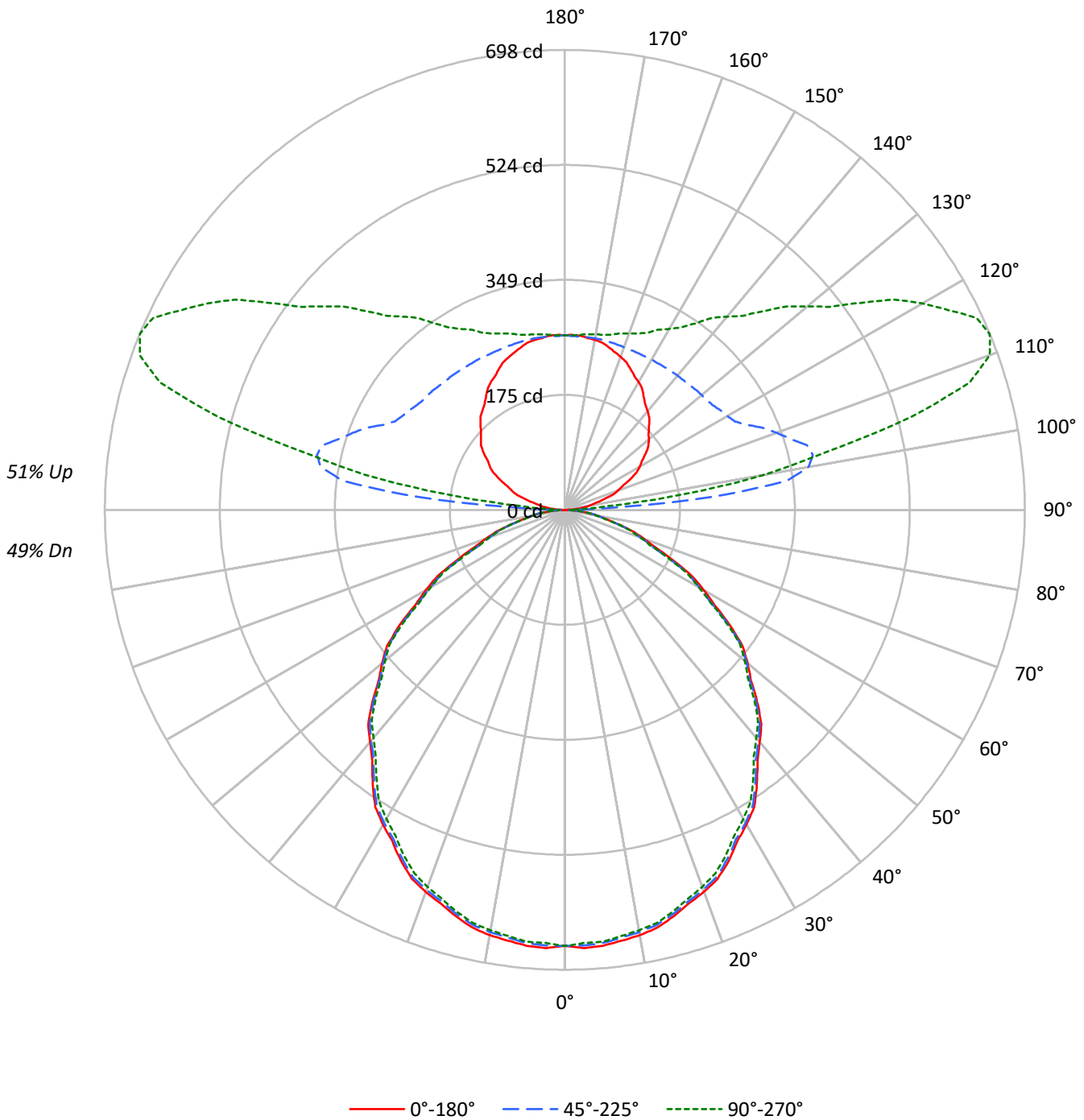
Lumens per Lamp: N/A
Luminaire Lumens: 3425.5 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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	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	83	83	83	69	69	69	56	56	56	49
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42
2	89	82	76	71	82	76	71	66	64	60	57	54	51	48	44	42	40	36
3	82	72	65	59	75	67	61	55	57	52	48	48	44	41	39	36	34	30
4	75	64	56	50	69	59	52	47	51	45	41	42	38	35	35	32	30	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26	23
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	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	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6106	6106	6106
5°	6151	6113	6091
10°	6140	6097	6070
15°	6100	6066	6033
20°	6059	6025	5979
25°	5987	5946	5887
30°	5876	5846	5771
35°	5723	5683	5611
40°	5539	5504	5441
45°	5389	5351	5297
50°	5195	5161	5111
55°	4925	4861	4824
60°	4484	4357	4334
65°	3951	3786	3772
70°	3410	3269	3269
75°	2937	2895	2852
80°	2588	2619	2556
85°	2022	2212	2212



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.6	1.8
10°-20°	178.7	5.2
20°-30°	267.6	7.8
30°-40°	313.9	9.2
40°-50°	314.9	9.2
50°-60°	268.6	7.8
60°-70°	175.2	5.1
70°-80°	87.9	2.6
80°-90°	25.4	0.7
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°	508.9	14.9
0°-40°	822.8	24.0
0°-60°	1406.3	41.1
0°-90°	1694.8	49.5
90°-120°	828.3	24.2
90°-150°	1507.0	44.0
90°-180°	1731.0	50.5
0°-180°	3425.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	662	662	662	662	662	
5°	664	658	660	658	658	63
15°	639	632	635	633	632	180
25°	588	581	584	579	578	270
35°	508	503	505	499	498	317
45°	413	410	410	406	406	318
55°	306	305	302	300	300	272
65°	181	178	173	172	173	181
75°	82	82	81	81	80	89
85°	19	21	21	21	21	23
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°	661.8	661.8	661.8	661.8	661.8
2.5°	665.9	660.5	661.8	660.8	658.1
5°	664.1	657.9	660.0	657.7	657.7
7.5°	659.6	652.8	654.9	652.6	652.5
10°	655.4	648.6	650.8	648.4	647.9
12.5°	649.4	642.6	645.2	642.4	642.3
15°	638.6	632.3	635.1	632.7	631.6
17.5°	626.4	619.6	622.9	619.7	619.2
20°	617.1	610.3	613.6	609.0	609.0
22.5°	606.0	599.2	603.0	596.9	596.9
25°	588.1	581.3	584.1	578.8	578.3
27.5°	566.9	560.2	563.1	557.1	557.0
30°	551.6	545.3	548.7	542.3	541.7
32.5°	534.9	529.1	531.5	525.1	524.5
35°	508.1	503.0	504.6	498.8	498.2
37.5°	479.9	474.7	476.5	471.5	471.3
40°	459.9	456.5	457.0	452.9	451.8
42.5°	441.4	437.5	438.0	433.9	433.7
45°	413.0	410.1	410.1	406.0	406.0
47.5°	382.8	380.6	380.0	376.6	376.5
50°	361.9	360.2	359.6	356.7	356.1
52.5°	340.1	339.3	337.3	334.9	334.8
55°	306.2	305.1	302.2	300.4	299.9
57.5°	269.5	267.2	263.9	261.4	261.8
60°	243.0	240.7	236.1	234.9	234.9
62.5°	217.5	214.8	210.1	208.5	209.4
65°	181.0	177.6	173.4	172.3	172.8
67.5°	147.8	144.7	140.2	140.2	139.8
70°	126.4	124.7	121.2	121.2	121.2
72.5°	107.4	106.6	104.1	104.0	103.6
75°	82.4	82.4	81.2	80.6	80.0
77.5°	61.7	61.9	61.4	60.8	59.7
80°	48.7	49.9	49.3	48.7	48.1
82.5°	36.7	37.8	37.7	36.7	36.5
85°	19.1	20.8	20.9	20.9	20.9
87.5°	5.3	7.6	8.6	9.0	9.4
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)