

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: P563578

Luminaire Tested: **SQ4-PP3-100U-050D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563578
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PP3-100U-050D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

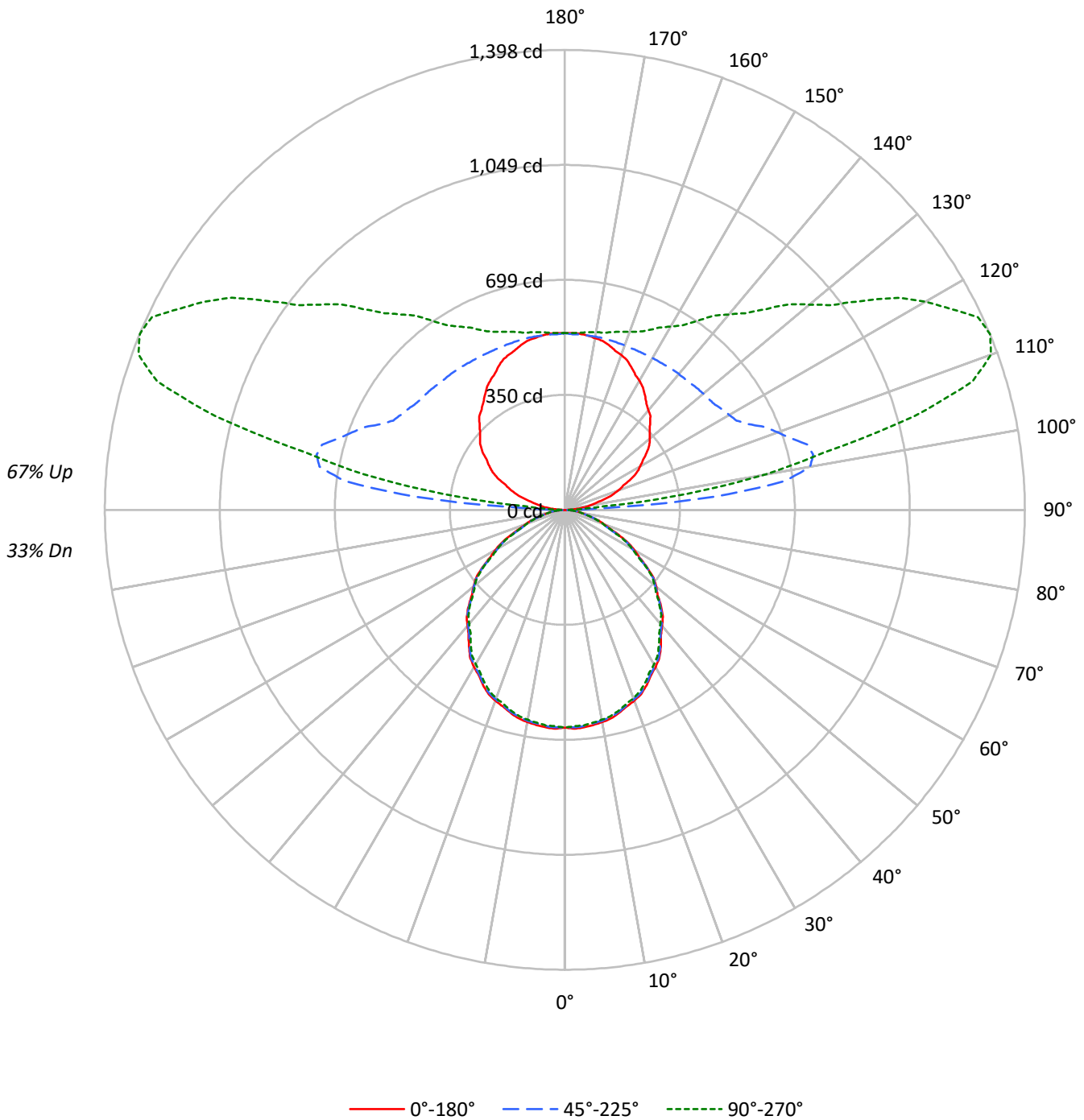
Lumens per Lamp: N/A
Luminaire Lumens: 5184.6 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 41.3
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	32	30	29	23
3	78	69	62	56	70	63	57	52	50	46	42	39	36	33	28	26	25	20
4	71	61	53	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17
5	66	54	47	41	59	49	43	37	40	35	31	31	27	25	23	20	19	15
6	60	49	41	35	54	44	37	32	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	15	12
8	52	40	32	27	46	36	30	25	29	24	21	23	20	17	17	15	13	10
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	13	12	9
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	15	12	11	9

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	1.2
10°-20°	178.7	3.4
20°-30°	267.6	5.2
30°-40°	313.9	6.1
40°-50°	314.9	6.1
50°-60°	268.6	5.2
60°-70°	175.2	3.4
70°-80°	87.9	1.7
80°-90°	25.4	0.5
90°-100°	251.5	4.9
100°-110°	694.4	13.4
110°-120°	716.1	13.8
120°-130°	575.5	11.1
130°-140°	452.3	8.7
140°-150°	346.9	6.7
150°-160°	249.3	4.8
160°-170°	152.5	2.9
170°-180°	51.4	1.0
0°-30°	508.9	9.8
0°-40°	822.8	15.9
0°-60°	1406.3	27.1
0°-90°	1694.9	32.7
90°-120°	1662.0	32.1
90°-150°	3036.6	58.6
90°-180°	3490.0	67.3
0°-180°	5184.6	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°	2	3	7	8	9	3
95°	37	136	456	188	122	40
105°	124	191	764	1166	1098	132
115°	222	268	615	1218	1385	218
125°	304	346	558	944	1108	271
135°	366	406	542	764	862	283
145°	424	454	535	651	700	266
155°	479	495	531	584	602	221
165°	518	525	534	554	559	146
175°	537	538	534	542	540	51
180°	537	537	537	537	537	



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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°	5.4	7.6	8.8	9.0	9.6
90°	1.7	3.4	6.9	7.8	8.6
92.5°	15.5	64.2	114.8	41.9	32.7
95°	37.0	136.1	456.3	187.6	122.0
97.5°	61.2	152.4	676.0	520.4	376.9
100°	79.1	162.2	757.1	762.4	619.6
102.5°	96.2	173.4	772.9	942.0	806.6
105°	123.7	191.0	764.0	1166.3	1098.2
107.5°	153.0	212.8	721.3	1274.5	1299.3
110°	173.6	227.4	688.3	1297.7	1378.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	192.2	243.9	657.4	1279.4	1398.3
115°	221.7	267.9	615.3	1218.1	1385.3
117.5°	247.5	293.5	587.6	1131.8	1322.0
120°	264.7	310.1	576.6	1073.4	1265.0
122.5°	281.2	324.5	567.7	1018.8	1200.3
125°	304.2	346.2	557.7	943.9	1107.7
127.5°	323.8	365.8	551.9	880.4	1021.8
130°	336.9	378.9	549.1	841.6	970.2
132.5°	349.2	389.2	546.4	809.1	925.5
135°	366.1	405.6	542.2	764.5	861.9
137.5°	385.0	421.0	540.2	727.0	810.2
140°	395.3	430.6	538.8	702.0	775.1
142.5°	407.0	439.6	537.4	679.8	744.2
145°	424.5	453.9	535.4	650.8	700.4
147.5°	441.4	467.1	533.5	626.3	664.8
150°	453.7	474.7	532.8	611.7	642.8
152.5°	463.4	483.0	532.1	599.2	624.9
155°	478.7	494.6	531.1	583.9	602.4
157.5°	492.8	505.0	531.2	572.8	585.4
160°	501.0	511.9	531.9	566.5	575.8
162.5°	507.9	517.5	532.6	561.0	568.2
165°	518.2	524.9	533.7	554.4	558.6
167.5°	526.1	530.1	534.5	550.4	551.7
170°	530.2	533.6	534.5	548.3	548.3
172.5°	533.7	535.7	534.5	545.5	544.8
175°	537.1	537.9	534.5	542.2	540.5
177.5°	538.5	537.8	534.3	539.1	537.8
180°	537.1	537.1	537.1	537.1	537.1

(END OF REPORT)