

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: P563562

Luminaire Tested: **SQ4-PP3-100U-050D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563562  
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-830-1D-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: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

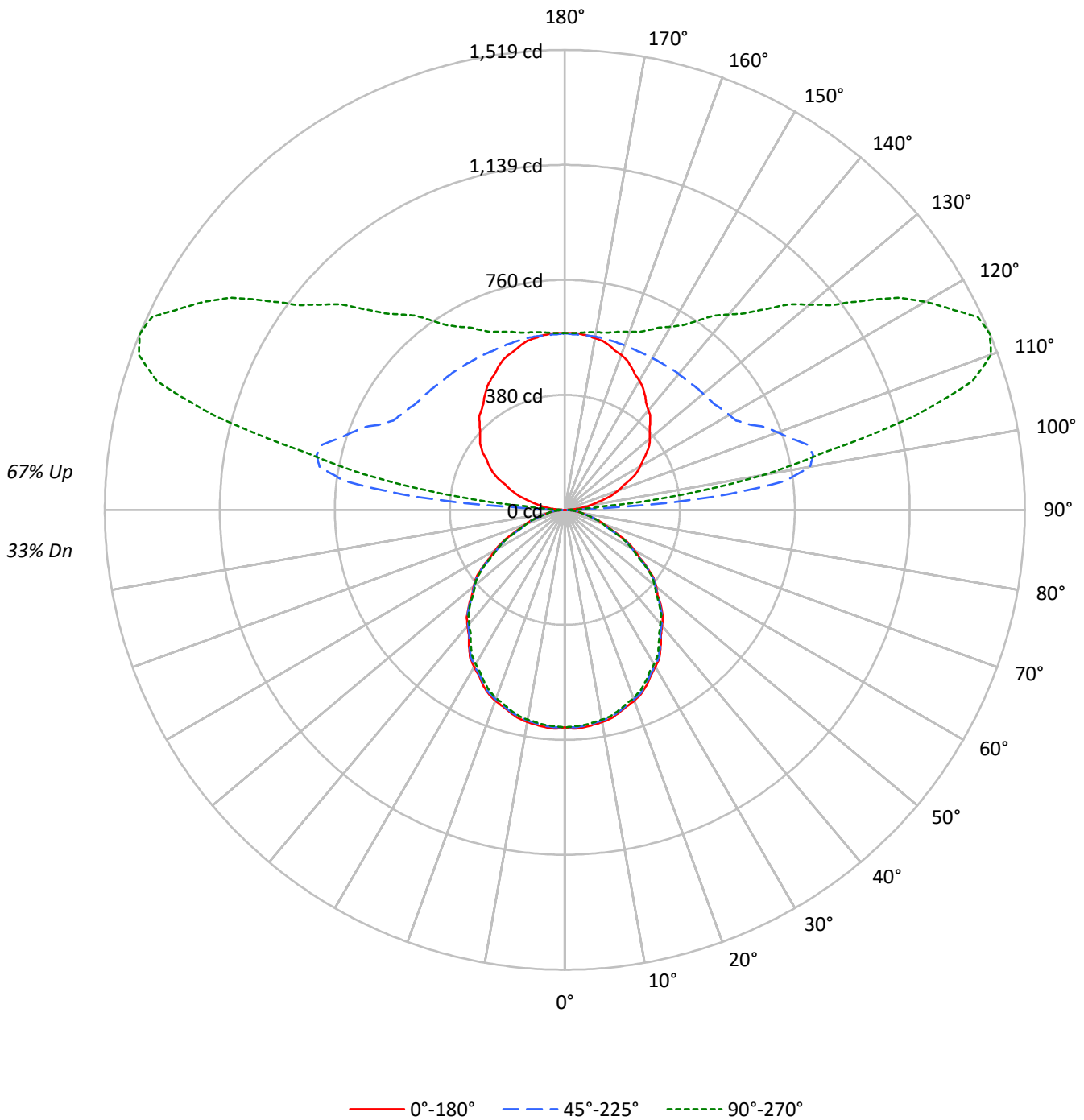
Lumens per Lamp: N/A  
Luminaire Lumens: 5632.1 lumens  
Efficiency: N/A  
Efficacy: 136.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

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°	6633	6633	6633
5°	6681	6640	6617
10°	6670	6623	6594
15°	6626	6590	6553
20°	6582	6545	6496
25°	6504	6459	6395
30°	6384	6349	6270
35°	6216	6173	6096
40°	6017	5980	5911
45°	5853	5811	5754
50°	5644	5606	5553
55°	5352	5281	5239
60°	4871	4731	4709
65°	4292	4113	4100
70°	3706	3553	3553
75°	3190	3144	3098
80°	2811	2848	2779
85°	2202	2403	2403



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.0	1.2
10°-20°	194.1	3.4
20°-30°	290.7	5.2
30°-40°	341.0	6.1
40°-50°	342.1	6.1
50°-60°	291.8	5.2
60°-70°	190.3	3.4
70°-80°	95.5	1.7
80°-90°	27.6	0.5
90°-100°	273.2	4.9
100°-110°	754.3	13.4
110°-120°	777.9	13.8
120°-130°	625.1	11.1
130°-140°	491.3	8.7
140°-150°	376.8	6.7
150°-160°	270.8	4.8
160°-170°	165.6	2.9
170°-180°	55.8	1.0
0°-30°	552.8	9.8
0°-40°	893.8	15.9
0°-60°	1527.7	27.1
0°-90°	1841.2	32.7
90°-120°	1805.5	32.1
90°-150°	3298.7	58.6
90°-180°	3791.0	67.3
0°-180°	5632.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	719	719	719	719	719	
5°	721	715	717	714	714	69
15°	694	687	690	687	686	196
25°	639	632	634	629	628	294
35°	552	546	548	542	541	345
45°	449	446	445	441	441	345
55°	333	331	328	326	326	296
65°	197	193	188	187	188	196
75°	90	90	88	88	87	97
85°	21	23	23	23	23	24
90°	2	4	8	8	9	4
95°	40	148	496	204	133	43
105°	134	207	830	1267	1193	143
115°	241	291	668	1323	1505	237
125°	330	376	606	1025	1203	294
135°	398	441	589	830	936	308
145°	461	493	582	707	761	289
155°	520	537	577	634	654	240
165°	563	570	580	602	607	159
175°	584	584	581	589	587	55
180°	584	584	584	584	584	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	718.9	718.9	718.9	718.9	718.9
2.5°	723.4	717.5	718.9	717.8	714.9
5°	721.4	714.6	717.0	714.5	714.5
7.5°	716.5	709.1	711.5	708.9	708.8
10°	712.0	704.6	706.9	704.4	703.8
12.5°	705.4	698.0	700.9	697.8	697.7
15°	693.7	686.9	689.9	687.4	686.1
17.5°	680.5	673.1	676.7	673.1	672.6
20°	670.4	663.0	666.6	661.6	661.6
22.5°	658.3	650.9	655.0	648.5	648.5
25°	638.9	631.5	634.5	628.8	628.2
27.5°	615.8	608.5	611.7	605.2	605.1
30°	599.2	592.4	596.0	589.1	588.5
32.5°	581.0	574.8	577.4	570.4	569.8
35°	551.9	546.4	548.1	541.8	541.2
37.5°	521.3	515.6	517.7	512.2	512.0
40°	499.6	495.9	496.5	492.0	490.8
42.5°	479.5	475.3	475.8	471.4	471.2
45°	448.6	445.5	445.4	441.0	441.0
47.5°	415.8	413.5	412.8	409.2	409.0
50°	393.2	391.3	390.6	387.5	386.9
52.5°	369.5	368.6	366.4	363.8	363.7
55°	332.7	331.4	328.3	326.4	325.7
57.5°	292.7	290.3	286.7	283.9	284.4
60°	264.0	261.5	256.4	255.2	255.2
62.5°	236.3	233.3	228.2	226.5	227.5
65°	196.6	192.9	188.4	187.1	187.8
67.5°	160.5	157.2	152.3	152.3	151.8
70°	137.4	135.5	131.7	131.7	131.7
72.5°	116.7	115.8	113.0	113.0	112.5
75°	89.5	89.5	88.2	87.6	86.9
77.5°	67.0	67.3	66.7	66.0	64.9
80°	52.9	54.2	53.6	52.9	52.3
82.5°	39.8	41.1	41.0	39.8	39.7
85°	20.8	22.6	22.7	22.7	22.7
87.5°	5.9	8.3	9.6	9.8	10.4
90°	1.9	3.7	7.5	8.4	9.3
92.5°	16.8	69.7	124.7	45.5	35.5
95°	40.1	147.8	495.7	203.8	132.6
97.5°	66.5	165.6	734.3	565.3	409.4
100°	85.9	176.2	822.4	828.2	673.1
102.5°	104.6	188.3	839.6	1023.3	876.2
105°	134.4	207.4	829.9	1267.0	1193.0
107.5°	166.2	231.2	783.6	1384.5	1411.5
110°	188.6	247.0	747.8	1409.7	1497.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	208.7	265.0	714.1	1389.8	1519.0
115°	240.8	291.1	668.4	1323.2	1504.8
117.5°	268.9	318.9	638.3	1229.5	1436.1
120°	287.5	336.8	626.4	1166.0	1374.1
122.5°	305.4	352.5	616.7	1106.8	1303.9
125°	330.5	376.1	605.9	1025.3	1203.3
127.5°	351.8	397.4	599.5	956.4	1110.0
130°	365.9	411.6	596.5	914.3	1053.9
132.5°	379.4	422.8	593.5	878.9	1005.4
135°	397.7	440.6	589.1	830.4	936.3
137.5°	418.2	457.3	586.8	789.8	880.1
140°	429.4	467.8	585.3	762.6	842.0
142.5°	442.1	477.5	583.8	738.5	808.4
145°	461.2	493.1	581.6	707.0	760.8
147.5°	479.5	507.4	579.5	680.4	722.2
150°	492.9	515.7	578.8	664.5	698.3
152.5°	503.4	524.7	578.0	650.9	678.9
155°	520.0	537.3	576.9	634.3	654.4
157.5°	535.3	548.6	577.1	622.2	635.9
160°	544.2	556.1	577.9	615.4	625.5
162.5°	551.7	562.1	578.6	609.4	617.2
165°	562.9	570.2	579.7	602.2	606.8
167.5°	571.5	575.9	580.7	597.9	599.3
170°	576.0	579.6	580.7	595.6	595.6
172.5°	579.7	581.9	580.7	592.6	591.9
175°	583.5	584.4	580.7	589.0	587.2
177.5°	584.9	584.2	580.5	585.7	584.2
180°	583.5	583.5	583.5	583.5	583.5

(END OF REPORT)