

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: P563579

Luminaire Tested: **SQ4-PP3-100U-050D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563579  
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-6  
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**

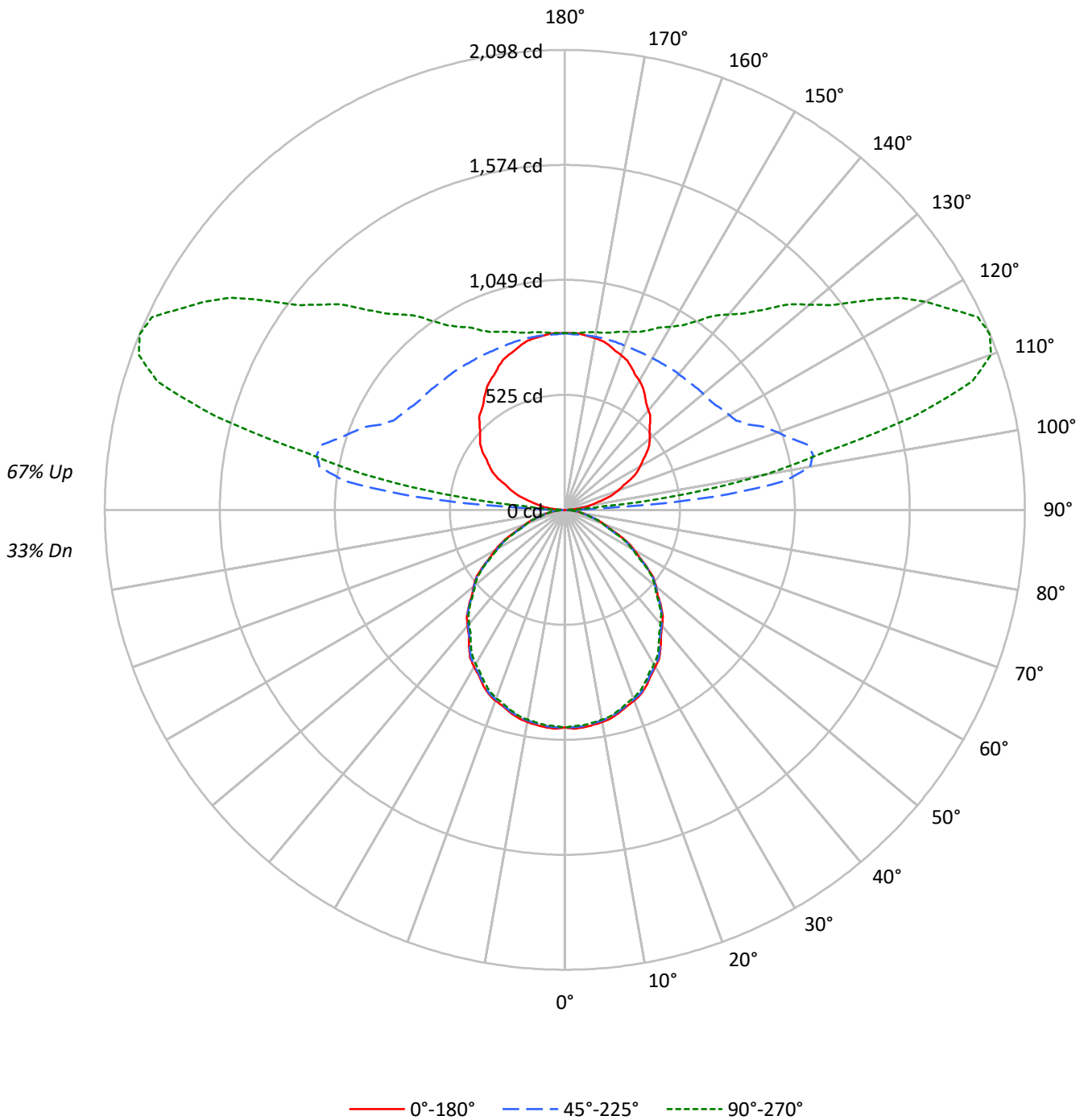
Lumens per Lamp: N/A  
Luminaire Lumens: 7777.0 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 64.3  
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°	6150	6113	6092
10°	6140	6096	6070
15°	6100	6066	6033
20°	6059	6025	5979
25°	5987	5946	5887
30°	5876	5845	5771
35°	5722	5683	5611
40°	5539	5505	5441
45°	5388	5350	5297
50°	5195	5161	5112
55°	4926	4861	4823
60°	4484	4356	4334
65°	3950	3786	3774
70°	3412	3269	3269
75°	2935	2895	2854
80°	2589	2618	2557
85°	2025	2209	2209



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.9	1.2
10°-20°	268.0	3.4
20°-30°	401.5	5.2
30°-40°	470.9	6.1
40°-50°	472.4	6.1
50°-60°	403.0	5.2
60°-70°	262.8	3.4
70°-80°	131.8	1.7
80°-90°	38.2	0.5
90°-100°	377.3	4.9
100°-110°	1041.6	13.4
110°-120°	1074.2	13.8
120°-130°	863.2	11.1
130°-140°	678.4	8.7
140°-150°	520.3	6.7
150°-160°	373.9	4.8
160°-170°	228.7	2.9
170°-180°	77.1	1.0
0°-30°	763.3	9.8
0°-40°	1234.2	15.9
0°-60°	2109.5	27.1
0°-90°	2542.3	32.7
90°-120°	2493.0	32.1
90°-150°	4554.9	58.6
90°-180°	5235.0	67.3
0°-180°	7777.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	996	987	990	987	987	95
15°	958	948	953	949	947	270
25°	882	872	876	868	867	406
35°	762	754	757	748	747	476
45°	619	615	615	609	609	477
55°	459	458	453	451	450	408
65°	271	266	260	258	259	271
75°	124	124	122	121	120	134
85°	29	31	31	31	31	34
90°	3	5	10	12	13	5
95°	55	204	684	281	183	59
105°	186	286	1146	1750	1647	197
115°	333	402	923	1827	2078	327
125°	456	519	837	1416	1662	406
135°	549	608	813	1147	1293	425
145°	637	681	803	976	1051	399
155°	718	742	797	876	904	331
165°	777	787	800	832	838	219
175°	806	807	802	813	811	77
180°	806	806	806	806	806	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	992.7	992.7	992.7	992.7	992.7
2.5°	998.9	990.8	992.7	991.2	987.1
5°	996.1	986.8	990.0	986.6	986.6
7.5°	989.4	979.1	982.4	978.9	978.7
10°	983.1	972.9	976.1	972.6	971.8
12.5°	974.0	963.8	967.8	963.6	963.4
15°	957.9	948.5	952.6	949.1	947.4
17.5°	939.6	929.4	934.4	929.5	928.8
20°	925.7	915.5	920.4	913.5	913.5
22.5°	909.0	898.8	904.4	895.4	895.4
25°	882.2	872.0	876.1	868.2	867.4
27.5°	850.3	840.3	844.6	835.7	835.5
30°	827.4	818.0	823.0	813.4	812.6
32.5°	802.3	793.6	797.3	787.7	786.8
35°	762.1	754.5	756.9	748.2	747.3
37.5°	719.8	712.0	714.8	707.3	707.0
40°	689.9	684.8	685.6	679.4	677.7
42.5°	662.1	656.3	657.0	650.9	650.6
45°	619.4	615.2	615.1	609.0	609.0
47.5°	574.2	571.0	570.0	565.0	564.8
50°	542.9	540.3	539.4	535.0	534.2
52.5°	510.2	509.0	506.0	502.3	502.2
55°	459.4	457.7	453.3	450.6	449.8
57.5°	404.2	400.8	395.8	392.0	392.7
60°	364.5	361.1	354.1	352.3	352.3
62.5°	326.2	322.2	315.1	312.7	314.1
65°	271.4	266.3	260.1	258.4	259.3
67.5°	221.7	217.1	210.4	210.3	209.7
70°	189.7	187.1	181.8	181.8	181.8
72.5°	161.1	159.9	156.1	156.1	155.4
75°	123.5	123.5	121.8	120.9	120.1
77.5°	92.6	92.9	92.0	91.1	89.6
80°	73.1	74.8	73.9	73.1	72.2
82.5°	55.0	56.7	56.5	55.0	54.8
85°	28.7	31.3	31.3	31.3	31.3
87.5°	8.2	11.4	13.2	13.5	14.4
90°	2.6	5.1	10.3	11.6	12.9
92.5°	23.2	96.3	172.2	62.8	49.0
95°	55.4	204.2	684.5	281.4	183.0
97.5°	91.8	228.7	1013.9	780.6	565.4
100°	118.6	243.4	1135.6	1143.7	929.4
102.5°	144.4	260.1	1159.3	1413.1	1209.9
105°	185.6	286.4	1145.9	1749.5	1647.4
107.5°	229.4	319.2	1082.0	1911.7	1949.0
110°	260.4	341.0	1032.5	1946.6	2067.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	288.2	365.9	986.1	1919.0	2097.5
115°	332.6	401.9	922.9	1827.1	2077.9
117.5°	371.2	440.3	881.4	1697.7	1983.0
120°	397.0	465.1	864.9	1610.1	1897.4
122.5°	421.8	486.8	851.5	1528.3	1800.5
125°	456.3	519.3	836.6	1415.8	1661.6
127.5°	485.7	548.7	827.8	1320.7	1532.6
130°	505.3	568.3	823.7	1262.5	1455.3
132.5°	523.9	583.9	819.6	1213.6	1388.3
135°	549.1	608.4	813.4	1146.7	1292.9
137.5°	577.5	631.4	810.3	1090.5	1215.3
140°	593.0	645.9	808.2	1053.0	1162.7
142.5°	610.5	659.4	806.2	1019.7	1116.3
145°	636.8	680.9	803.1	976.2	1050.6
147.5°	662.0	700.6	800.2	939.5	997.2
150°	680.6	712.1	799.2	917.6	964.2
152.5°	695.0	724.5	798.2	898.8	937.4
155°	718.0	741.9	796.6	875.9	903.6
157.5°	739.1	757.5	796.9	859.2	878.1
160°	751.5	767.9	797.9	849.8	863.6
162.5°	761.8	776.2	798.9	841.5	852.3
165°	777.3	787.4	800.5	831.6	837.9
167.5°	789.1	795.2	801.8	825.5	827.6
170°	795.3	800.4	801.8	822.4	822.4
172.5°	800.5	803.5	801.8	818.2	817.2
175°	805.6	806.9	801.8	813.3	810.8
177.5°	807.7	806.7	801.5	808.7	806.7
180°	805.6	805.6	805.6	805.6	805.6

(END OF REPORT)