

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: P563635

Luminaire Tested: **SQ4-PP3-100U-125D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563635  
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-125D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

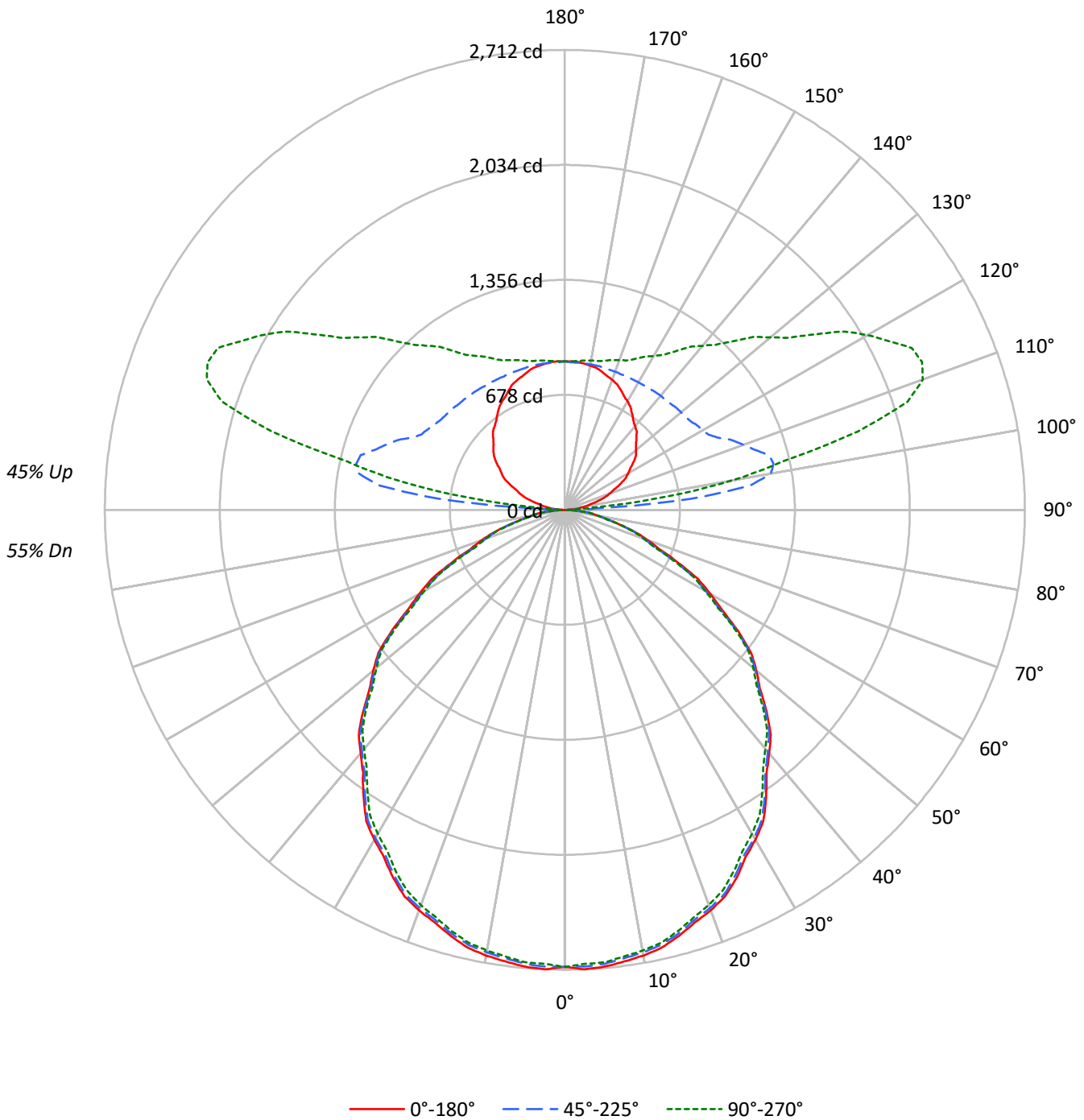
Lumens per Lamp: N/A  
Luminaire Lumens: 12585.7 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 107.3  
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	48	46	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37	34
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	38	35	32	29
5	69	58	50	44	64	54	47	41	47	41	37	40	36	33	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	29	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	28	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	22	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	23	20	24	21	18	16
10	48	36	28	24	44	34	27	23	30	24	20	26	21	18	22	19	16	14

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	16576	16576	16576
5°	16697	16595	16537
10°	16669	16551	16477
15°	16559	16469	16379
20°	16449	16357	16233
25°	16253	16141	15981
30°	15953	15869	15668
35°	15536	15429	15234
40°	15039	14944	14773
45°	14628	14525	14381
50°	14103	14013	13877
55°	13373	13195	13095
60°	12174	11826	11768
65°	10725	10278	10243
70°	9260	8877	8877
75°	7971	7859	7745
80°	7028	7113	6943
85°	5498	5999	5999



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.8	2.0
10°-20°	727.6	5.8
20°-30°	1089.9	8.7
30°-40°	1278.4	10.2
40°-50°	1282.4	10.2
50°-60°	1094.0	8.7
60°-70°	713.4	5.7
70°-80°	357.9	2.8
80°-90°	100.9	0.8
90°-100°	409.9	3.3
100°-110°	1131.5	9.0
110°-120°	1166.9	9.3
120°-130°	937.7	7.5
130°-140°	736.9	5.9
140°-150°	565.2	4.5
150°-160°	406.2	3.2
160°-170°	248.4	2.0
170°-180°	83.8	0.7
0°-30°	2072.3	16.5
0°-40°	3350.7	26.6
0°-60°	5727.0	45.5
0°-90°	6899.3	54.8
90°-120°	2708.2	21.5
90°-150°	4948.1	39.3
90°-180°	5686.0	45.2
0°-180°	12585.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2695	2695	2695	2695	2695	
5°	2704	2679	2688	2678	2678	257
15°	2600	2575	2586	2577	2572	734
25°	2395	2367	2378	2357	2355	1101
35°	2069	2048	2055	2031	2029	1292
45°	1682	1670	1670	1653	1653	1295
55°	1247	1242	1230	1223	1221	1108
65°	737	723	706	702	704	735
75°	335	335	331	328	326	364
85°	78	85	85	85	85	92
90°	3	6	11	13	14	7
95°	60	222	744	306	199	64
105°	202	311	1245	1900	1790	215
115°	361	437	1003	1985	2257	355
125°	496	564	909	1538	1805	441
135°	596	661	884	1246	1404	462
145°	692	740	872	1060	1141	433
155°	780	806	865	952	982	359
165°	844	855	870	903	910	238
175°	875	876	871	884	881	83
180°	875	875	875	875	875	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2694.9	2694.9	2694.9	2694.9	2694.9
2.5°	2711.9	2689.7	2694.9	2690.9	2679.8
5°	2704.3	2678.9	2687.8	2678.4	2678.4
7.5°	2685.9	2658.2	2667.0	2657.6	2657.1
10°	2668.9	2641.2	2650.0	2640.5	2638.2
12.5°	2644.4	2616.6	2627.4	2616.0	2615.5
15°	2600.4	2575.0	2586.3	2576.7	2572.1
17.5°	2550.8	2523.1	2536.7	2523.4	2521.5
20°	2513.0	2485.3	2498.9	2480.0	2480.0
22.5°	2467.7	2440.0	2455.4	2430.8	2430.8
25°	2394.9	2367.2	2378.4	2357.1	2354.8
27.5°	2308.5	2281.2	2292.9	2268.8	2268.3
30°	2246.1	2220.7	2234.3	2208.3	2206.0
32.5°	2178.1	2154.6	2164.4	2138.4	2136.1
35°	2069.0	2048.2	2054.8	2031.2	2028.9
37.5°	1954.2	1933.0	1940.5	1920.2	1919.3
40°	1873.0	1859.1	1861.2	1844.5	1839.9
42.5°	1797.4	1781.7	1783.7	1767.1	1766.2
45°	1681.7	1670.1	1669.8	1653.3	1653.3
47.5°	1558.8	1550.1	1547.5	1533.8	1533.3
50°	1473.8	1466.9	1464.4	1452.5	1450.2
52.5°	1385.0	1381.8	1373.7	1363.7	1363.3
55°	1247.1	1242.5	1230.5	1223.4	1221.1
57.5°	1097.3	1088.1	1074.7	1064.3	1066.2
60°	989.6	980.4	961.3	956.6	956.6
62.5°	885.7	874.6	855.5	848.9	852.6
65°	736.9	723.0	706.2	701.5	703.8
67.5°	601.8	589.3	571.1	571.1	569.2
70°	514.9	508.0	493.6	493.6	493.6
72.5°	437.4	434.2	423.7	423.7	421.8
75°	335.4	335.4	330.7	328.2	325.9
77.5°	251.3	252.2	249.9	247.4	243.3
80°	198.4	203.0	200.8	198.3	196.0
82.5°	149.3	153.9	153.5	149.3	148.8
85°	77.9	84.9	85.0	85.0	85.0
87.5°	21.3	29.3	32.5	32.8	34.9
90°	2.8	5.5	11.2	12.6	14.0
92.5°	25.2	104.6	187.1	68.3	53.2
95°	60.2	221.8	743.6	305.6	198.8
97.5°	99.7	248.4	1101.5	848.0	614.2
100°	128.8	264.4	1233.7	1242.4	1009.6
102.5°	156.8	282.5	1259.4	1535.0	1314.3
105°	201.6	311.2	1244.9	1900.5	1789.6
107.5°	249.3	346.7	1175.4	2076.7	2117.2
110°	282.9	370.5	1121.6	2114.6	2246.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	313.1	397.4	1071.2	2084.7	2278.5
115°	361.3	436.6	1002.6	1984.8	2257.3
117.5°	403.3	478.3	957.5	1844.2	2154.2
120°	431.3	505.2	939.6	1749.1	2061.2
122.5°	458.2	528.8	925.0	1660.2	1955.9
125°	495.7	564.2	908.8	1538.0	1805.0
127.5°	527.6	596.1	899.3	1434.6	1664.9
130°	548.9	617.4	894.8	1371.4	1580.9
132.5°	569.1	634.2	890.3	1318.3	1508.1
135°	596.5	660.9	883.6	1245.7	1404.5
137.5°	627.3	685.9	880.2	1184.6	1320.2
140°	644.1	701.6	878.0	1143.9	1263.1
142.5°	663.2	716.3	875.7	1107.8	1212.6
145°	691.7	739.7	872.4	1060.5	1141.2
147.5°	719.2	761.1	869.3	1020.6	1083.3
150°	739.4	773.6	868.2	996.8	1047.4
152.5°	755.0	787.1	867.1	976.4	1018.3
155°	780.0	806.0	865.4	951.5	981.6
157.5°	802.9	822.9	865.7	933.3	953.9
160°	816.4	834.2	866.8	923.1	938.2
162.5°	827.6	843.2	867.9	914.1	925.9
165°	844.4	855.3	869.6	903.3	910.2
167.5°	857.3	863.8	871.0	896.8	899.0
170°	864.0	869.5	871.0	893.4	893.4
172.5°	869.6	872.9	871.0	888.9	887.8
175°	875.2	876.5	871.0	883.5	880.8
177.5°	877.4	876.3	870.7	878.5	876.3
180°	875.2	875.2	875.2	875.2	875.2

(END OF REPORT)