

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: P564307

Luminaire Tested: **SQ4-PR1-100U-125D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564307
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-100U-125D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

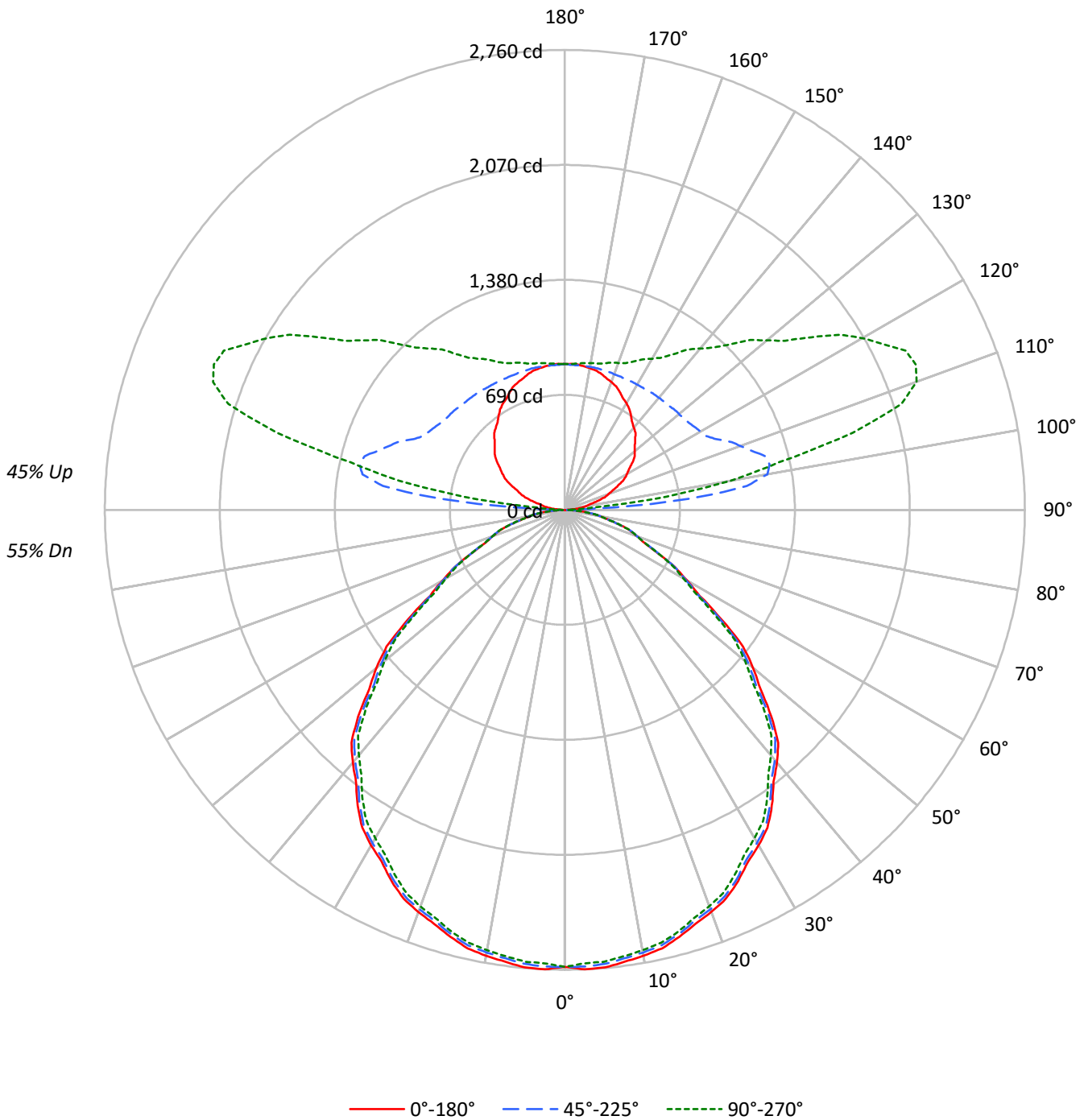
Lumens per Lamp: N/A
Luminaire Lumens: 12545.0 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	91	83	77	72	84	78	72	68	67	63	60	57	54	52	48	46	44	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	49	53	47	43	45	41	38	38	35	33	29
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	37	43	37	33	37	32	29	31	28	25	23
7	60	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	29	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	26	33	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16870	16870	16870
5°	17023	16891	16803
10°	16968	16850	16762
15°	16894	16789	16698
20°	16809	16700	16577
25°	16690	16578	16386
30°	16510	16393	16158
35°	16267	16125	15894
40°	15896	15725	15440
45°	15248	14981	14673
50°	14107	13767	13496
55°	12312	12034	11780
60°	10375	10288	10085
65°	8974	9009	8939
70°	8242	8285	8285
75°	7916	7916	7973
80°	7449	7531	7449
85°	5999	6669	6669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.4	2.1
10°-20°	742.1	5.9
20°-30°	1119.3	8.9
30°-40°	1333.6	10.6
40°-50°	1314.9	10.5
50°-60°	1004.9	8.0
60°-70°	621.9	5.0
70°-80°	353.2	2.8
80°-90°	109.3	0.9
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°	2120.8	16.9
0°-40°	3454.4	27.5
0°-60°	5774.2	46.0
0°-90°	6858.5	54.7
90°-120°	2708.2	21.6
90°-150°	4948.1	39.4
90°-180°	5686.0	45.3
0°-180°	12545.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2743	2743	2743	2743	2743	
5°	2757	2727	2736	2726	2722	262
15°	2653	2625	2636	2627	2622	749
25°	2459	2429	2443	2417	2414	1132
35°	2166	2141	2148	2119	2117	1352
45°	1753	1730	1722	1691	1687	1343
55°	1148	1130	1122	1103	1098	1029
65°	617	612	619	614	614	625
75°	333	333	333	336	336	352
85°	85	90	94	94	94	99
90°	3	6	11	13	14	8
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°	2742.8	2742.8	2742.8	2742.8	2742.8
2.5°	2759.8	2735.8	2742.8	2736.8	2723.9
5°	2757.0	2726.9	2735.7	2726.1	2721.5
7.5°	2735.7	2706.1	2714.9	2705.4	2702.6
10°	2716.8	2689.1	2697.9	2688.3	2683.7
12.5°	2696.0	2666.4	2677.1	2665.7	2661.0
15°	2653.0	2625.3	2636.5	2626.9	2622.3
17.5°	2605.8	2576.2	2587.3	2576.3	2570.3
20°	2568.0	2540.2	2551.4	2534.8	2532.5
22.5°	2526.4	2498.7	2509.8	2487.6	2487.2
25°	2459.3	2429.3	2442.8	2416.7	2414.4
27.5°	2379.4	2351.7	2362.9	2336.4	2333.6
30°	2324.6	2296.9	2308.1	2279.6	2275.0
32.5°	2262.3	2236.4	2245.7	2217.3	2214.5
35°	2166.4	2140.9	2147.5	2119.0	2116.7
37.5°	2057.2	2034.1	2037.8	2006.6	2004.3
40°	1979.7	1956.6	1958.5	1925.3	1923.0
42.5°	1894.7	1871.6	1869.6	1836.5	1834.2
45°	1752.9	1729.8	1722.2	1691.4	1686.8
47.5°	1591.3	1568.2	1554.0	1528.9	1525.7
50°	1474.2	1451.1	1438.7	1417.3	1410.4
52.5°	1347.5	1324.4	1314.0	1294.5	1287.5
55°	1148.1	1129.7	1122.2	1103.2	1098.5
57.5°	958.7	946.2	944.0	925.6	923.7
60°	843.4	836.5	836.3	819.8	819.8
62.5°	745.1	740.0	743.7	732.8	730.9
65°	616.6	612.0	619.0	614.2	614.2
67.5°	515.0	515.0	519.3	517.4	517.4
70°	458.3	458.3	460.7	460.7	460.7
72.5°	407.3	405.4	411.5	411.5	409.6
75°	333.1	333.1	333.1	335.5	335.5
77.5°	259.4	259.9	261.8	261.2	259.4
80°	210.3	212.6	212.6	210.3	210.3
82.5°	161.1	163.4	163.5	163.0	161.1
85°	85.0	89.7	94.5	94.5	94.5
87.5°	25.1	33.1	40.0	40.3	38.7
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)