

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: P564115

Luminaire Tested: **SQ4-PR1-075U-125D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564115
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PR1-075U-125D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

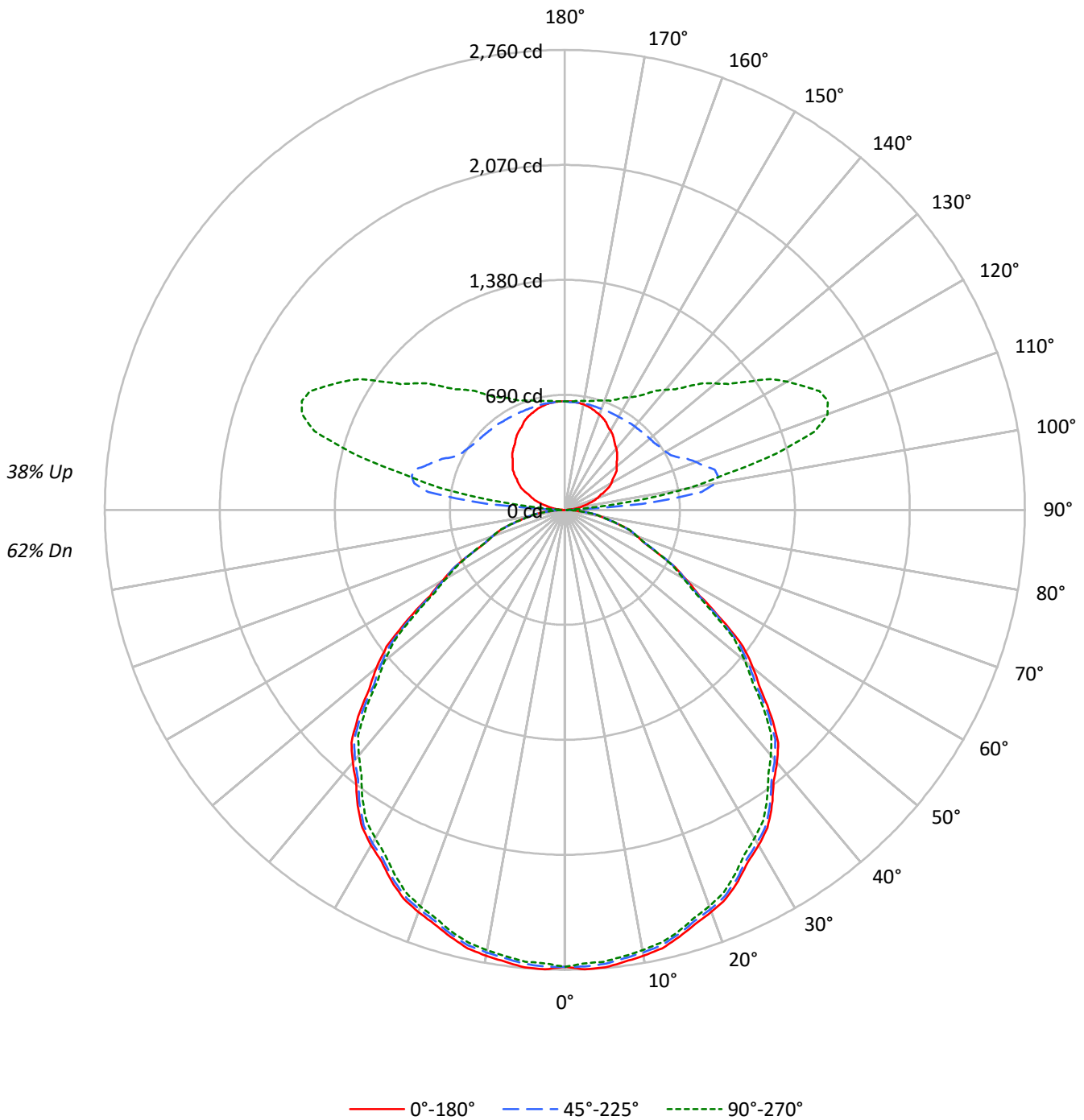
Lumens per Lamp: N/A
Luminaire Lumens: 11097.0 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 97.3
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



TEST NUMBER: P564115
CATALOG NUMBER: SQ4-PR1-075U-125D-830-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P564115

CATALOG NUMBER: SQ4-PR1-075U-125D-830-1D-UNV-STD-W-6

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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	97	93	89	94	91	87	84	79	77	75	69	67	66	60	58	57	53
2	92	85	79	74	86	80	74	70	70	66	62	61	58	55	53	51	49	45
3	84	75	67	62	79	70	64	59	62	57	53	54	51	47	47	44	42	38
4	77	66	59	53	72	63	56	50	55	50	45	49	44	41	42	39	36	33
5	71	59	51	45	66	56	49	43	50	44	39	44	39	36	38	35	32	29
6	66	53	45	39	61	51	43	38	45	39	35	40	35	31	35	31	28	26
7	61	48	40	35	57	46	38	33	41	35	31	36	31	28	32	28	25	23
8	56	44	36	31	53	42	35	30	37	31	27	33	28	25	29	25	23	20
9	53	40	33	28	49	38	31	27	34	29	24	31	26	22	27	23	20	18
10	49	37	30	25	46	35	28	24	32	26	22	28	24	20	25	21	19	17

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



TEST NUMBER: P564115

CATALOG NUMBER: SQ4-PR1-075U-125D-830-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.4	2.3
10°-20°	742.1	6.7
20°-30°	1119.3	10.1
30°-40°	1333.6	12.0
40°-50°	1314.9	11.8
50°-60°	1004.9	9.1
60°-70°	621.9	5.6
70°-80°	353.2	3.2
80°-90°	109.1	1.0
90°-100°	306.9	2.8
100°-110°	844.3	7.6
110°-120°	871.5	7.9
120°-130°	698.2	6.3
130°-140°	548.4	4.9
140°-150°	420.3	3.8
150°-160°	302.2	2.7
160°-170°	184.8	1.7
170°-180°	62.3	0.6
0°-30°	2120.8	19.1
0°-40°	3454.4	31.1
0°-60°	5774.2	52.0
0°-90°	6858.3	61.8
90°-120°	2022.6	18.2
90°-150°	3689.5	33.2
90°-180°	4239.0	38.2
0°-180°	11097.0	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°	1	5	10	12	12	6
95°	46	168	543	232	148	48
105°	151	232	930	1417	1322	159
115°	267	325	746	1486	1686	264
125°	368	420	677	1145	1341	328
135°	444	493	658	926	1048	343
145°	514	549	648	789	850	322
155°	581	600	644	709	730	267
165°	628	637	646	673	677	177
175°	651	652	648	656	655	62
180°	651	651	651	651	651	

TEST NUMBER: P564115

CATALOG NUMBER: SQ4-PR1-075U-125D-830-1D-UNV-STD-W-6

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°	24.8	33.1	39.7	40.2	38.4
90°	1.4	5.4	9.7	12.5	12.5
92.5°	19.1	81.6	141.5	54.3	44.6
95°	45.7	167.5	542.7	232.0	148.1
97.5°	74.5	185.7	828.1	638.1	450.2
100°	95.5	197.0	917.8	926.4	755.9
102.5°	115.5	210.5	941.1	1149.3	992.9
105°	150.9	232.1	930.3	1416.8	1322.1
107.5°	184.7	258.9	877.4	1547.8	1576.0
110°	209.0	276.7	837.5	1580.4	1677.8

TEST NUMBER: P564115

CATALOG NUMBER: SQ4-PR1-075U-125D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	231.2	296.7	797.7	1559.4	1707.7
115°	267.2	325.4	746.2	1485.8	1686.1
117.5°	301.5	355.1	713.5	1382.6	1609.2
120°	322.6	374.0	699.1	1305.2	1539.4
122.5°	341.4	392.8	689.1	1237.4	1459.7
125°	368.2	419.7	677.0	1145.2	1341.4
127.5°	393.7	442.7	668.9	1068.2	1240.4
130°	407.0	457.1	664.5	1022.5	1179.5
132.5°	422.5	472.6	661.2	982.2	1124.1
135°	444.4	493.1	657.6	926.1	1048.0
137.5°	464.9	510.1	654.5	880.8	981.2
140°	480.4	522.3	653.4	850.7	941.4
142.5°	493.7	532.4	651.2	823.8	901.5
145°	513.6	548.8	647.9	789.1	850.0
147.5°	534.9	565.2	646.2	758.4	807.1
150°	548.2	575.3	645.1	741.5	779.4
152.5°	560.4	585.3	644.0	726.9	758.4
155°	581.4	600.4	643.7	709.3	729.6
157.5°	596.7	612.1	643.7	694.7	708.8
160°	607.7	619.9	643.7	686.9	697.7
162.5°	616.6	626.6	644.8	680.2	688.9
165°	628.5	636.6	646.5	672.9	677.0
167.5°	636.8	643.0	647.9	666.7	667.8
170°	642.3	646.4	647.9	664.5	664.5
172.5°	646.8	648.7	647.9	661.1	660.1
175°	650.6	652.0	647.9	656.2	654.8
177.5°	651.8	651.8	647.3	653.9	651.8
180°	650.6	650.6	650.6	650.6	650.6

(END OF REPORT)