

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: P565005

Luminaire Tested: **SQ4-PW1-125U-050D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565005
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-125U-050D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20787.6 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

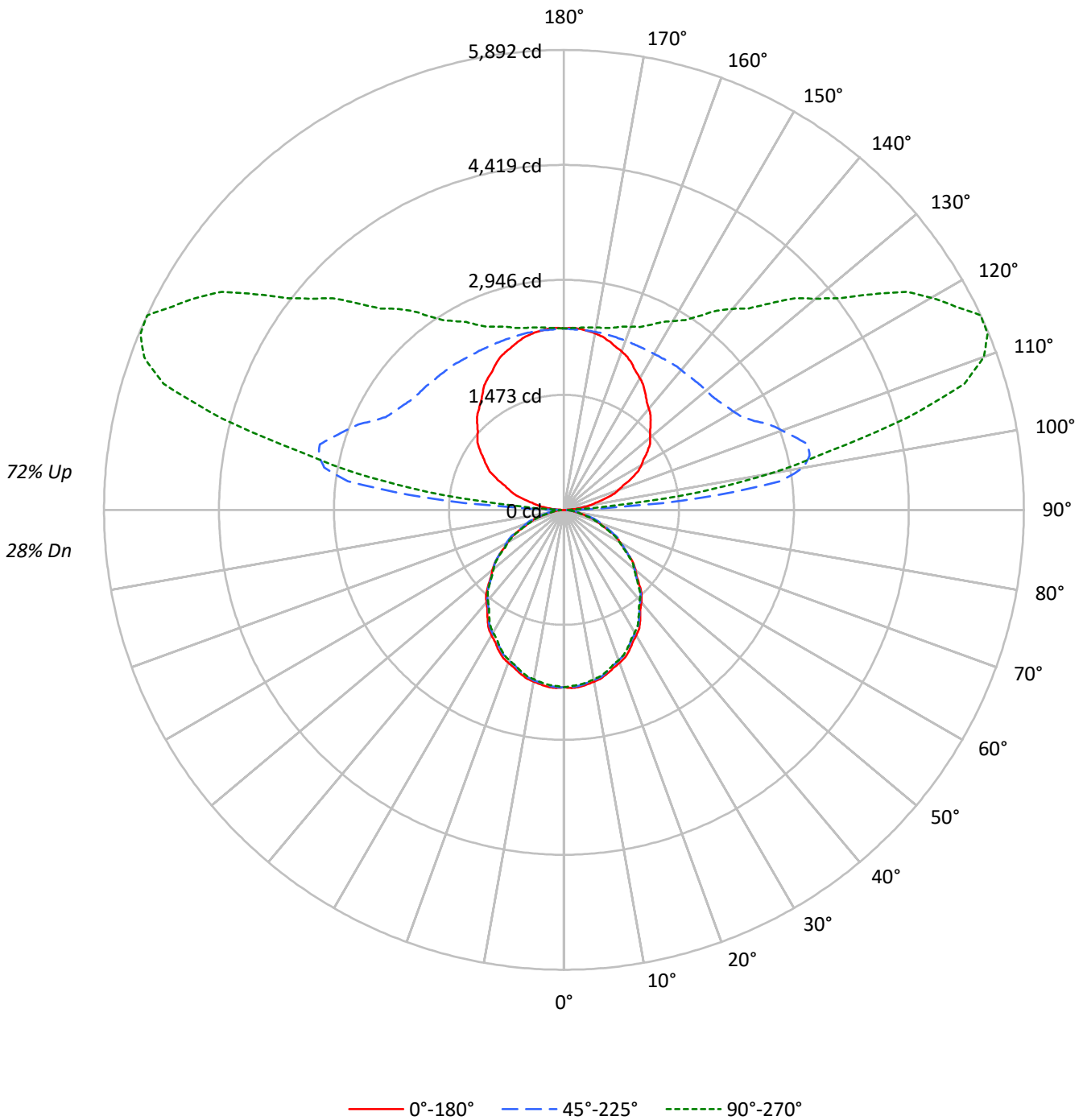
Input Watts (W): 146.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	79	76	74	62	60	58	46	45	44	32	31	30	24
2	85	77	72	67	75	69	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	41	36	33	31	25	23	22	17
4	70	60	53	47	63	54	48	43	43	38	34	32	29	26	22	20	19	14
5	65	53	46	40	58	48	41	36	38	33	30	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	18	16	14	13	10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	16	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6992	6992	6992
5°	7037	6981	6950
10°	6980	6924	6887
15°	6906	6830	6805
20°	6824	6719	6706
25°	6729	6606	6586
30°	6587	6487	6444
35°	6400	6309	6272
40°	6200	6103	6079
45°	5959	5880	5854
50°	5712	5664	5626
55°	5445	5445	5359
60°	5113	5212	5026
65°	4679	4912	4562
70°	4125	4521	4017
75°	3522	4046	3427
80°	2731	3406	2766
85°	1768	2615	2332



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.1	1.0
10°-20°	604.4	2.9
20°-30°	896.5	4.3
30°-40°	1049.0	5.0
40°-50°	1044.3	5.0
50°-60°	901.8	4.3
60°-70°	649.2	3.1
70°-80°	340.4	1.6
80°-90°	89.8	0.4
90°-100°	1086.8	5.2
100°-110°	2927.6	14.1
110°-120°	3072.5	14.8
120°-130°	2493.2	12.0
130°-140°	1955.4	9.4
140°-150°	1501.2	7.2
150°-160°	1079.4	5.2
160°-170°	659.4	3.2
170°-180°	222.4	1.1
0°-30°	1715.0	8.3
0°-40°	2764.0	13.3
0°-60°	4710.2	22.7
0°-90°	5789.6	27.9
90°-120°	7086.9	34.1
90°-150°	13036.8	62.7
90°-180°	14998.0	72.1
0°-180°	20787.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2273	2273	2273	2273	2273	
5°	2279	2254	2261	2255	2251	216
15°	2169	2142	2145	2141	2137	611
25°	1983	1950	1947	1935	1941	912
35°	1705	1681	1680	1665	1670	1066
45°	1370	1358	1352	1348	1346	1057
55°	1016	1014	1016	1002	1000	906
65°	643	662	675	648	627	637
75°	296	324	340	318	288	318
85°	50	66	74	70	66	66
90°	6	18	36	38	38	13
95°	166	591	1782	911	630	173
105°	542	843	3238	4844	4546	569
115°	956	1170	2696	5210	5892	941
125°	1305	1499	2421	4092	4815	1165
135°	1572	1754	2353	3301	3738	1213
145°	1817	1959	2323	2822	3031	1140
155°	2063	2138	2302	2532	2613	950
165°	2237	2264	2311	2403	2415	631
175°	2326	2323	2314	2347	2341	221
180°	2323	2323	2323	2323	2323	

TEST NUMBER: P565005

CATALOG NUMBER: SQ4-PW1-125U-050D-835-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2273.4	2273.4	2273.4	2273.4	2273.4
2.5°	2286.2	2267.4	2273.4	2268.3	2257.4
5°	2279.4	2254.0	2261.4	2255.3	2251.4
7.5°	2256.2	2232.7	2238.2	2231.7	2229.3
10°	2235.3	2211.8	2217.3	2209.2	2205.3
12.5°	2211.3	2186.2	2191.7	2183.6	2181.3
15°	2169.2	2141.8	2145.2	2141.1	2137.2
17.5°	2120.4	2092.6	2093.1	2086.7	2085.9
20°	2085.1	2055.7	2053.1	2045.2	2049.1
22.5°	2046.7	2015.7	2013.0	2001.9	2007.4
25°	1983.0	1949.7	1946.9	1935.0	1940.9
27.5°	1909.3	1876.4	1876.4	1859.7	1866.0
30°	1854.8	1823.4	1826.7	1806.9	1814.7
32.5°	1797.1	1768.9	1770.7	1750.8	1758.6
35°	1704.6	1681.1	1680.5	1664.6	1670.5
37.5°	1610.0	1589.3	1586.0	1576.8	1578.4
40°	1544.3	1526.7	1520.3	1514.3	1514.3
42.5°	1475.4	1459.3	1453.0	1448.5	1447.0
45°	1370.1	1358.3	1352.0	1348.0	1346.0
47.5°	1265.9	1254.9	1249.5	1246.6	1244.7
50°	1193.8	1186.0	1183.8	1177.7	1175.8
52.5°	1121.7	1117.0	1114.9	1107.2	1105.3
55°	1015.5	1013.6	1015.5	1001.5	999.5
57.5°	905.0	908.1	914.6	895.6	890.9
60°	831.2	839.1	847.3	825.1	817.2
62.5°	755.9	768.5	780.0	754.5	743.5
65°	643.0	662.5	675.0	648.5	626.9
67.5°	534.0	558.3	573.3	544.7	520.4
70°	458.7	486.1	502.8	474.1	446.7
72.5°	393.0	423.5	437.1	410.0	382.6
75°	296.4	323.9	340.5	317.8	288.4
77.5°	210.3	236.2	250.0	230.2	205.9
80°	154.2	181.6	192.3	175.8	156.2
82.5°	109.4	132.1	139.4	129.5	116.2
85°	50.1	65.7	74.1	70.0	66.1
87.5°	14.0	27.3	37.5	38.2	39.7
90°	5.9	17.5	35.5	38.5	38.5
92.5°	72.2	255.1	504.3	242.8	168.7
95°	165.7	591.1	1781.7	911.1	630.4
97.5°	264.6	676.7	2794.4	2334.5	1760.3
100°	340.3	710.8	3116.4	3260.6	2705.0
102.5°	413.7	758.7	3223.0	3954.3	3498.2
105°	541.6	842.6	3237.8	4843.9	4545.9
107.5°	662.3	930.9	3099.8	5301.1	5378.1
110°	742.8	997.5	2974.4	5443.1	5723.8



TEST NUMBER: P565005

CATALOG NUMBER: SQ4-PW1-125U-050D-835-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	828.1	1064.2	2853.6	5411.7	5873.0
115°	955.9	1170.1	2696.2	5209.5	5892.5
117.5°	1072.5	1273.4	2574.2	4886.9	5647.4
120°	1148.3	1342.2	2512.7	4655.4	5436.7
122.5°	1214.6	1406.2	2467.7	4418.6	5197.6
125°	1305.2	1499.1	2420.9	4091.8	4815.2
127.5°	1392.2	1583.2	2391.3	3803.5	4449.4
130°	1444.3	1635.3	2379.5	3638.4	4205.5
132.5°	1496.4	1685.0	2367.6	3492.9	4013.8
135°	1571.5	1753.8	2352.9	3301.0	3737.9
137.5°	1643.1	1817.9	2345.2	3138.2	3497.0
140°	1692.9	1860.7	2338.1	3038.0	3362.1
142.5°	1745.0	1901.2	2333.3	2944.5	3217.6
145°	1817.2	1959.0	2323.3	2822.2	3030.6
147.5°	1895.3	2018.6	2313.2	2719.4	2883.2
150°	1947.4	2054.5	2308.5	2654.9	2790.9
152.5°	1994.7	2087.9	2306.1	2602.2	2712.7
155°	2062.8	2138.1	2302.5	2532.3	2613.3
157.5°	2122.6	2181.1	2303.1	2483.1	2537.5
160°	2160.5	2209.7	2305.5	2454.4	2494.9
162.5°	2193.6	2233.6	2307.9	2430.5	2459.4
165°	2237.4	2263.5	2311.4	2403.4	2415.0
167.5°	2272.9	2288.0	2314.4	2382.6	2387.2
170°	2296.6	2302.4	2314.4	2370.6	2370.6
172.5°	2310.8	2312.0	2316.7	2358.8	2358.8
175°	2326.2	2323.3	2314.4	2346.8	2341.0
177.5°	2332.7	2328.1	2316.2	2335.0	2330.4
180°	2323.3	2323.3	2323.3	2323.3	2323.3

(END OF REPORT)