

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: P565081

Luminaire Tested: **SQ4-PW1-125U-125D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565081
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-125D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29755.1 lumens
Efficiency: N/A
Efficacy: 127.3 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: General Diffuse

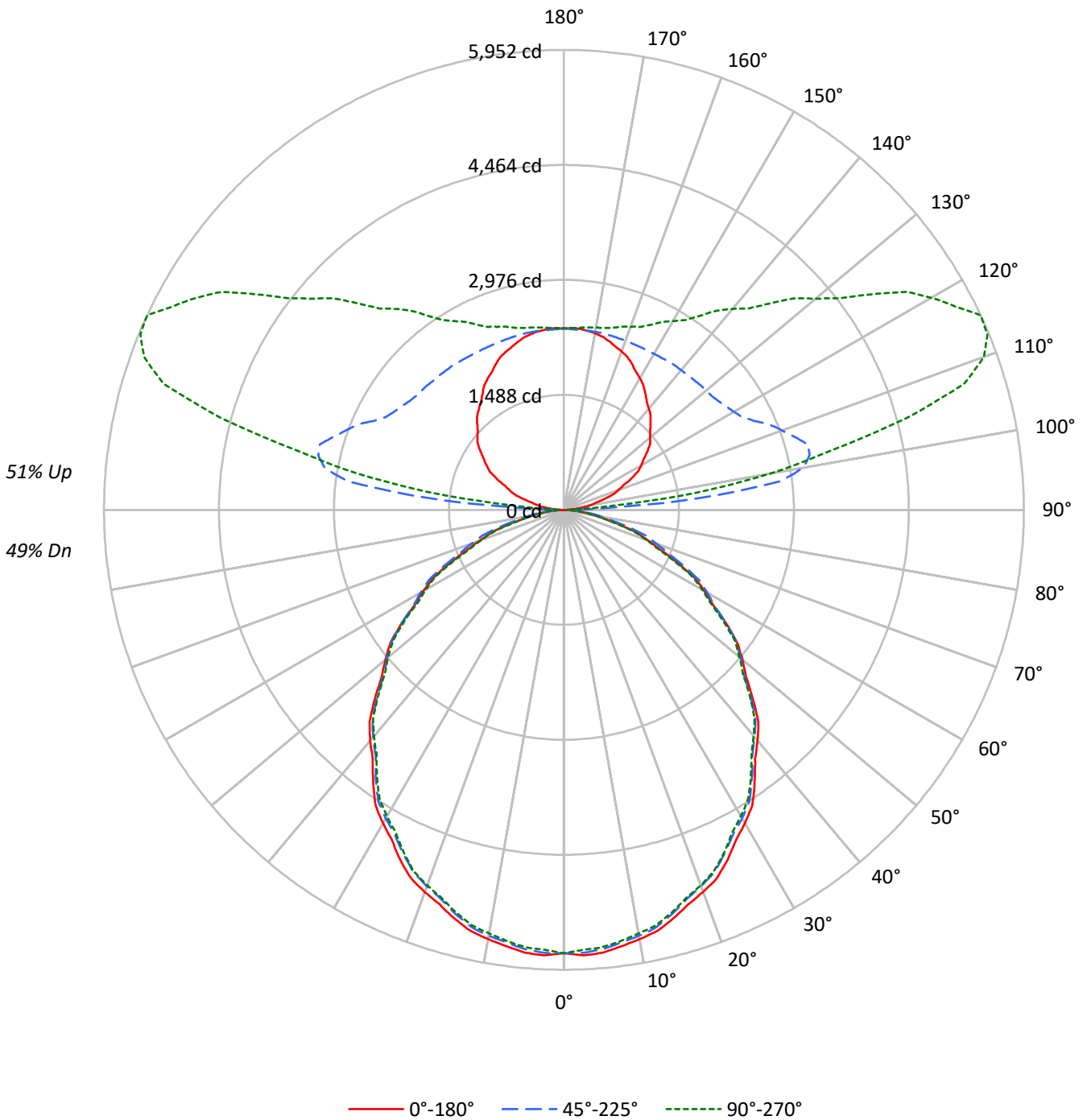
Input Watts (W): 233.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	107	107	107	107	99	99	99	99	83	83	83	68	68	68	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	50	48	43	41	40	35
3	81	72	65	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	53	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	31	37	31	27	31	27	23	26	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	15
9	50	38	31	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17649	17649	17649
5°	17763	17622	17545
10°	17621	17479	17384
15°	17434	17241	17177
20°	17226	16961	16928
25°	16985	16677	16625
30°	16627	16375	16267
35°	16154	15926	15831
40°	15650	15407	15346
45°	15042	14844	14778
50°	14418	14297	14200
55°	13744	13744	13528
60°	12906	13155	12688
65°	11811	12399	11517
70°	10411	11412	10138
75°	8892	10213	8652
80°	6895	8597	6985
85°	4460	6602	5889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.4	1.8
10°-20°	1525.7	5.1
20°-30°	2263.1	7.6
30°-40°	2648.0	8.9
40°-50°	2636.2	8.9
50°-60°	2276.4	7.7
60°-70°	1638.6	5.5
70°-80°	859.3	2.9
80°-90°	218.6	0.7
90°-100°	1097.8	3.7
100°-110°	2957.1	9.9
110°-120°	3103.4	10.4
120°-130°	2518.3	8.5
130°-140°	1975.0	6.6
140°-150°	1516.3	5.1
150°-160°	1090.2	3.7
160°-170°	666.1	2.2
170°-180°	224.6	0.8
0°-30°	4329.1	14.5
0°-40°	6977.1	23.4
0°-60°	11889.8	40.0
0°-90°	14606.2	49.1
90°-120°	7158.3	24.1
90°-150°	13168.0	44.3
90°-180°	15149.0	50.9
0°-180°	29755.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5739	5739	5739	5739	5739	
5°	5754	5690	5708	5693	5683	545
15°	5476	5407	5415	5405	5395	1543
25°	5006	4922	4914	4884	4899	2302
35°	4303	4243	4242	4202	4217	2690
45°	3458	3429	3413	3403	3398	2668
55°	2563	2558	2563	2528	2523	2287
65°	1623	1672	1704	1637	1583	1608
75°	748	818	860	802	728	802
85°	126	166	187	177	167	167
90°	6	18	36	39	39	16
95°	167	597	1800	920	637	175
105°	547	851	3270	4893	4592	575
115°	966	1182	2723	5262	5952	950
125°	1318	1514	2445	4133	4864	1177
135°	1587	1772	2376	3334	3776	1225
145°	1836	1979	2347	2851	3061	1151
155°	2084	2160	2326	2558	2640	959
165°	2260	2286	2335	2428	2439	637
175°	2350	2347	2338	2370	2365	223
180°	2347	2347	2347	2347	2347	

TEST NUMBER: P565081

CATALOG NUMBER: SQ4-PW1-125U-125D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5738.7	5738.7	5738.7	5738.7	5738.7
2.5°	5771.0	5723.6	5738.7	5725.9	5698.2
5°	5753.9	5689.6	5708.3	5693.0	5683.1
7.5°	5695.2	5635.9	5649.7	5633.4	5627.4
10°	5642.6	5583.3	5597.1	5576.7	5566.8
12.5°	5581.9	5518.7	5532.4	5512.0	5506.1
15°	5475.8	5406.6	5415.1	5404.8	5394.9
17.5°	5352.4	5282.2	5283.6	5267.4	5265.4
20°	5263.4	5189.3	5182.5	5162.5	5172.4
22.5°	5166.3	5088.2	5081.4	5053.4	5067.2
25°	5005.5	4921.5	4914.5	4884.5	4899.4
27.5°	4819.5	4736.4	4736.6	4694.5	4710.3
30°	4682.0	4602.9	4611.2	4561.1	4580.8
32.5°	4536.3	4465.2	4469.6	4419.5	4439.3
35°	4302.7	4243.4	4242.1	4202.0	4216.8
37.5°	4064.1	4011.7	4003.4	3980.3	3984.2
40°	3898.3	3853.8	3837.6	3822.4	3822.4
42.5°	3724.3	3683.8	3667.7	3656.5	3652.5
45°	3458.4	3428.7	3412.9	3402.6	3397.7
47.5°	3195.5	3167.8	3154.0	3146.8	3141.9
50°	3013.4	2993.7	2988.2	2972.9	2967.9
52.5°	2831.4	2819.6	2814.2	2794.9	2790.0
55°	2563.4	2558.5	2563.4	2527.9	2523.0
57.5°	2284.4	2292.3	2308.6	2260.8	2249.0
60°	2098.3	2118.1	2138.7	2082.7	2062.9
62.5°	1908.2	1939.8	1968.8	1904.5	1876.8
65°	1623.0	1672.4	1703.9	1636.9	1582.6
67.5°	1348.0	1409.3	1447.1	1374.9	1313.6
70°	1157.8	1227.1	1269.1	1196.7	1127.5
72.5°	992.0	1069.1	1103.2	1034.9	965.7
75°	748.3	817.5	859.5	802.2	728.1
77.5°	530.9	596.1	631.0	581.1	519.8
80°	389.3	458.5	485.4	443.8	394.4
82.5°	276.1	333.4	351.9	326.9	293.3
85°	126.4	166.0	187.1	176.7	166.9
87.5°	33.6	63.6	84.0	84.7	88.7
90°	6.0	17.7	35.9	38.9	38.9
92.5°	72.9	257.7	509.4	245.2	170.4
95°	167.4	597.1	1799.6	920.3	636.7
97.5°	267.2	683.5	2822.5	2358.0	1778.1
100°	343.8	717.9	3147.8	3293.5	2732.3
102.5°	417.9	766.3	3255.4	3994.1	3533.4
105°	547.0	851.0	3270.3	4892.7	4591.6
107.5°	669.0	940.3	3131.0	5354.5	5432.2
110°	750.3	1007.5	3004.3	5497.9	5781.4

TEST NUMBER: P565081

CATALOG NUMBER: SQ4-PW1-125U-125D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	836.4	1074.9	2882.3	5466.1	5932.0
115°	965.6	1181.9	2723.3	5262.0	5951.8
117.5°	1083.3	1286.2	2600.1	4936.1	5704.3
120°	1159.9	1355.7	2538.0	4702.2	5491.4
122.5°	1226.8	1420.3	2492.5	4463.0	5249.9
125°	1318.3	1514.1	2445.3	4132.9	4863.7
127.5°	1406.2	1599.1	2415.4	3841.8	4494.2
130°	1458.8	1651.7	2403.4	3675.0	4247.9
132.5°	1511.4	1702.0	2391.5	3528.0	4054.1
135°	1587.3	1771.5	2376.5	3334.2	3775.5
137.5°	1659.7	1836.2	2368.8	3169.8	3532.2
140°	1709.9	1879.4	2361.6	3068.5	3395.9
142.5°	1762.5	1920.4	2356.8	2974.1	3250.0
145°	1835.5	1978.7	2346.6	2850.6	3061.1
147.5°	1914.4	2038.9	2336.5	2746.8	2912.2
150°	1967.0	2075.1	2331.7	2681.6	2818.9
152.5°	2014.8	2108.9	2329.3	2628.4	2740.0
155°	2083.6	2159.6	2325.7	2557.7	2639.6
157.5°	2144.0	2203.0	2326.3	2508.1	2563.1
160°	2182.2	2231.9	2328.7	2479.1	2520.0
162.5°	2215.7	2256.0	2331.1	2454.9	2484.1
165°	2259.9	2286.2	2334.7	2427.6	2439.3
167.5°	2295.8	2311.0	2337.7	2406.5	2411.2
170°	2319.7	2325.6	2337.7	2394.5	2394.5
172.5°	2334.1	2335.2	2340.1	2382.5	2382.5
175°	2349.6	2346.7	2337.7	2370.4	2364.6
177.5°	2356.2	2351.5	2339.5	2358.5	2353.8
180°	2346.6	2346.6	2346.6	2346.6	2346.6

(END OF REPORT)