

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: P563061

Luminaire Tested: **SQ4-PC3-125U-125D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563061
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-125U-125D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

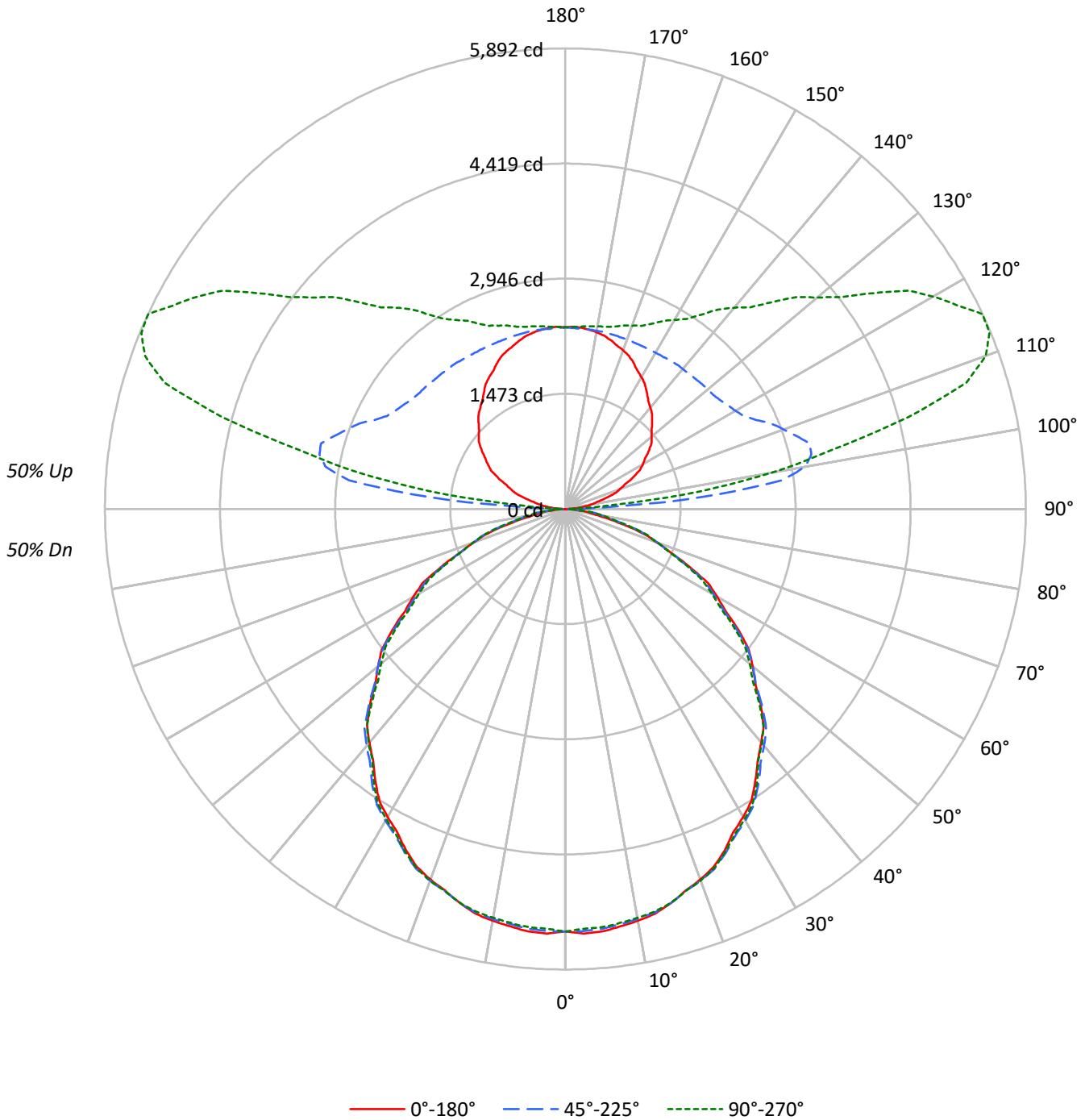
Lumens per Lamp: N/A
Luminaire Lumens: 29758.0 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

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	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	82	75	70	82	75	70	66	64	60	57	53	50	48	43	42	40	35
3	81	72	64	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	63	56	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	19	22	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16626	16626	16626
5°	16751	16643	16582
10°	16711	16633	16586
15°	16623	16623	16607
20°	16514	16563	16563
25°	16358	16477	16425
30°	16159	16354	16283
35°	15918	16162	16050
40°	15655	15876	15715
45°	15370	15479	15240
50°	14969	14969	14729
55°	14493	14306	14091
60°	13794	13516	13301
65°	12749	12495	12385
70°	11163	11252	11207
75°	8982	9934	9993
80°	6383	8421	8512
85°	3885	7064	7064



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.6	1.7
10°-20°	1468.3	4.9
20°-30°	2223.5	7.5
30°-40°	2665.7	9.0
40°-50°	2718.1	9.1
50°-60°	2372.7	8.0
60°-70°	1698.6	5.7
70°-80°	874.9	2.9
80°-90°	226.7	0.8
90°-100°	1086.8	3.7
100°-110°	2927.6	9.8
110°-120°	3072.5	10.3
120°-130°	2493.2	8.4
130°-140°	1955.4	6.6
140°-150°	1501.2	5.0
150°-160°	1079.4	3.6
160°-170°	659.4	2.2
170°-180°	222.4	0.7
0°-30°	4203.4	14.1
0°-40°	6869.0	23.1
0°-60°	11959.8	40.2
0°-90°	14760.0	49.6
90°-120°	7086.9	23.8
90°-150°	13036.8	43.8
90°-180°	14998.0	50.4
0°-180°	29758.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5406	5406	5406	5406	5406	
5°	5426	5372	5391	5376	5371	515
15°	5221	5177	5221	5221	5216	1472
25°	4820	4786	4856	4840	4840	2218
35°	4240	4230	4305	4275	4275	2652
45°	3534	3524	3559	3514	3504	2720
55°	2703	2669	2668	2628	2628	2410
65°	1752	1713	1717	1702	1702	1733
75°	756	790	836	841	841	817
85°	110	169	200	205	200	150
90°	6	18	36	38	38	16
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5406.2	5406.2	5406.2	5406.2	5406.2
2.5°	5438.2	5391.2	5406.2	5393.7	5374.2
5°	5426.2	5372.4	5391.2	5376.0	5371.2
7.5°	5387.2	5333.3	5358.1	5348.0	5343.1
10°	5351.1	5297.3	5326.1	5316.0	5311.1
12.5°	5303.1	5253.2	5286.1	5276.0	5275.0
15°	5221.0	5176.9	5221.0	5220.9	5216.0
17.5°	5117.9	5077.7	5124.9	5127.8	5124.9
20°	5045.8	5001.7	5060.8	5055.9	5060.8
22.5°	4957.7	4921.5	4984.7	4971.8	4976.7
25°	4820.5	4786.3	4855.6	4840.5	4840.5
27.5°	4658.3	4633.9	4709.4	4693.4	4693.4
30°	4550.2	4525.7	4605.3	4585.3	4585.3
32.5°	4430.1	4413.4	4489.1	4465.1	4465.1
35°	4239.9	4230.1	4304.9	4274.9	4274.9
37.5°	4043.6	4034.8	4102.7	4066.4	4054.6
40°	3899.5	3894.6	3954.5	3914.5	3914.5
42.5°	3755.3	3750.4	3802.4	3754.3	3754.3
45°	3534.0	3524.3	3559.1	3513.8	3504.0
47.5°	3292.8	3283.0	3304.8	3255.6	3250.7
50°	3128.6	3118.8	3128.6	3083.4	3078.5
52.5°	2960.4	2942.8	2944.4	2899.3	2898.3
55°	2703.1	2668.8	2668.1	2628.0	2628.0
57.5°	2430.8	2385.8	2389.7	2355.6	2350.7
60°	2242.6	2193.6	2197.5	2167.4	2162.5
62.5°	2058.4	2001.6	2013.3	1979.2	1978.3
65°	1752.0	1712.9	1717.0	1701.9	1701.9
67.5°	1457.7	1421.5	1447.7	1435.6	1434.6
70°	1241.4	1216.9	1251.4	1251.3	1246.4
72.5°	1041.2	1040.2	1083.2	1083.3	1086.2
75°	755.9	790.1	836.0	841.0	841.0
77.5°	504.6	565.3	615.7	617.7	616.7
80°	360.4	428.9	475.5	485.4	480.6
82.5°	244.3	316.7	355.4	365.3	360.4
85°	110.1	168.9	200.2	205.1	200.2
87.5°	33.2	70.8	87.2	87.6	79.8
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

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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)