

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: P564381

Luminaire Tested: **SQ4-PR1-125U-100D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564381
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PR1-125U-100D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

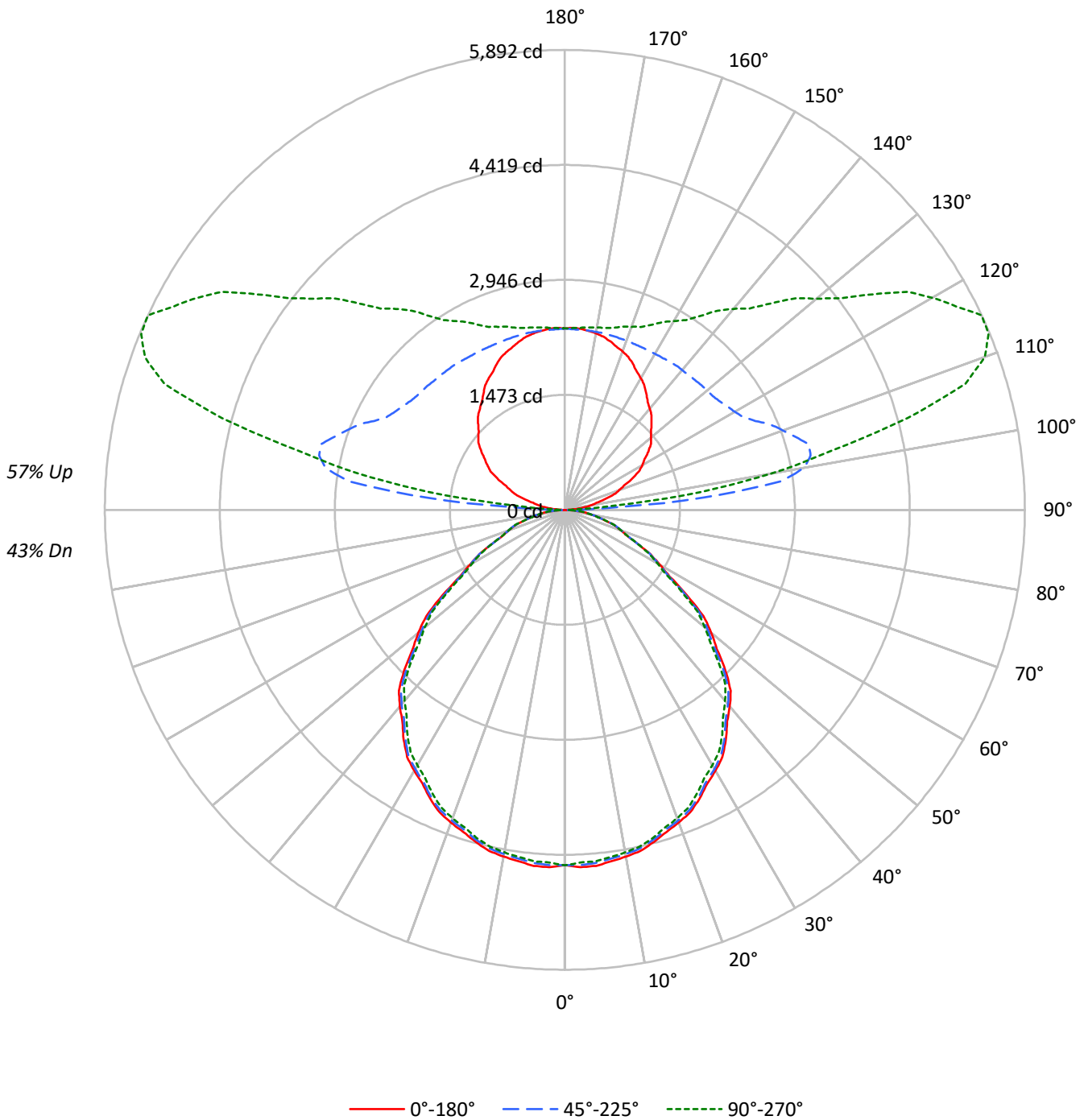
Lumens per Lamp: N/A
Luminaire Lumens: 26388.2 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 201.2
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	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50	43
1	96	92	89	85	88	85	81	78	70	68	66	57	55	54	44	43	43	37
2	88	81	75	70	80	74	69	65	62	58	55	50	48	45	39	38	36	31
3	80	71	64	59	73	65	59	54	55	50	46	44	41	39	35	33	31	27
4	74	63	55	50	67	58	51	46	49	44	40	40	36	33	31	29	27	23
5	68	56	48	43	62	52	45	40	44	38	34	36	32	29	28	26	24	20
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	26	23	21	18
7	58	46	38	32	53	42	35	30	36	30	26	29	25	22	24	21	19	16
8	53	41	34	29	49	38	32	27	32	27	23	27	23	20	22	19	17	14
9	50	38	30	25	45	35	28	24	30	25	21	25	21	18	20	17	15	13
10	46	35	27	23	42	32	26	21	27	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14006	14006	14006
5°	14132	14023	13950
10°	14087	13989	13915
15°	14025	13938	13863
20°	13954	13865	13762
25°	13856	13763	13604
30°	13707	13609	13414
35°	13504	13387	13195
40°	13197	13055	12819
45°	12659	12437	12181
50°	11711	11429	11204
55°	10222	9990	9780
60°	8614	8541	8372
65°	7450	7479	7422
70°	6843	6878	6878
75°	6572	6572	6619
80°	6183	6252	6183
85°	4982	5536	5536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.7	1.6
10°-20°	1232.2	4.7
20°-30°	1858.5	7.0
30°-40°	2214.4	8.4
40°-50°	2183.2	8.3
50°-60°	1668.5	6.3
60°-70°	1032.5	3.9
70°-80°	586.5	2.2
80°-90°	183.9	0.7
90°-100°	1086.8	4.1
100°-110°	2927.6	11.1
110°-120°	3072.5	11.6
120°-130°	2493.2	9.4
130°-140°	1955.4	7.4
140°-150°	1501.2	5.7
150°-160°	1079.4	4.1
160°-170°	659.4	2.5
170°-180°	222.4	0.8
0°-30°	3521.3	13.3
0°-40°	5735.7	21.7
0°-60°	9587.4	36.3
0°-90°	11390.2	43.2
90°-120°	7086.9	26.9
90°-150°	13036.8	49.4
90°-180°	14998.0	56.8
0°-180°	26388.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4554	4554	4554	4554	4554	
5°	4578	4528	4542	4526	4519	434
15°	4405	4359	4378	4362	4354	1243
25°	4083	4034	4056	4013	4009	1879
35°	3597	3555	3566	3518	3515	2245
45°	2910	2872	2860	2808	2801	2230
55°	1906	1876	1863	1832	1824	1708
65°	1024	1016	1028	1020	1020	1037
75°	553	553	553	557	557	584
85°	141	149	157	157	157	164
90°	6	18	36	38	38	17
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°	4554.1	4554.1	4554.1	4554.1	4554.1
2.5°	4582.3	4542.5	4554.1	4544.2	4522.7
5°	4577.6	4527.8	4542.3	4526.5	4518.8
7.5°	4542.3	4493.2	4507.8	4492.0	4487.4
10°	4511.0	4464.9	4479.6	4463.7	4456.0
12.5°	4476.4	4427.3	4445.1	4426.1	4418.4
15°	4405.0	4359.0	4377.6	4361.7	4354.1
17.5°	4326.6	4277.5	4296.0	4277.7	4267.8
20°	4263.8	4217.8	4236.4	4208.8	4205.0
22.5°	4194.8	4148.8	4167.3	4130.4	4129.7
25°	4083.4	4033.5	4055.9	4012.7	4008.9
27.5°	3950.8	3904.8	3923.4	3879.3	3874.7
30°	3859.8	3813.8	3832.4	3785.1	3777.4
32.5°	3756.3	3713.3	3728.8	3681.6	3677.0
35°	3597.0	3554.8	3565.6	3518.5	3514.6
37.5°	3415.8	3377.4	3383.6	3331.7	3327.9
40°	3287.1	3248.8	3251.8	3196.8	3193.0
42.5°	3145.9	3107.5	3104.3	3049.3	3045.5
45°	2910.5	2872.2	2859.6	2808.4	2800.7
47.5°	2642.2	2603.9	2580.3	2538.6	2533.2
50°	2447.7	2409.3	2388.8	2353.3	2341.8
52.5°	2237.4	2199.1	2181.7	2149.3	2137.8
55°	1906.4	1875.7	1863.2	1831.7	1824.0
57.5°	1591.8	1571.1	1567.5	1536.8	1533.7
60°	1400.4	1388.9	1388.6	1361.1	1361.1
62.5°	1237.2	1228.7	1234.8	1216.7	1213.6
65°	1023.8	1016.1	1027.7	1019.9	1019.9
67.5°	855.1	855.1	862.2	859.0	859.0
70°	761.0	761.0	764.9	764.9	764.9
72.5°	676.3	673.2	683.3	683.2	680.2
75°	553.1	553.1	553.1	557.0	557.0
77.5°	430.7	431.5	434.6	433.8	430.7
80°	349.1	352.9	353.0	349.1	349.1
82.5°	267.5	271.4	271.4	270.6	267.5
85°	141.2	148.9	156.9	156.9	156.9
87.5°	42.0	56.6	69.9	70.4	67.3
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)