

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: P563737

Luminaire Tested: **SQ4-PP3-125U-125D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563737
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-125D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

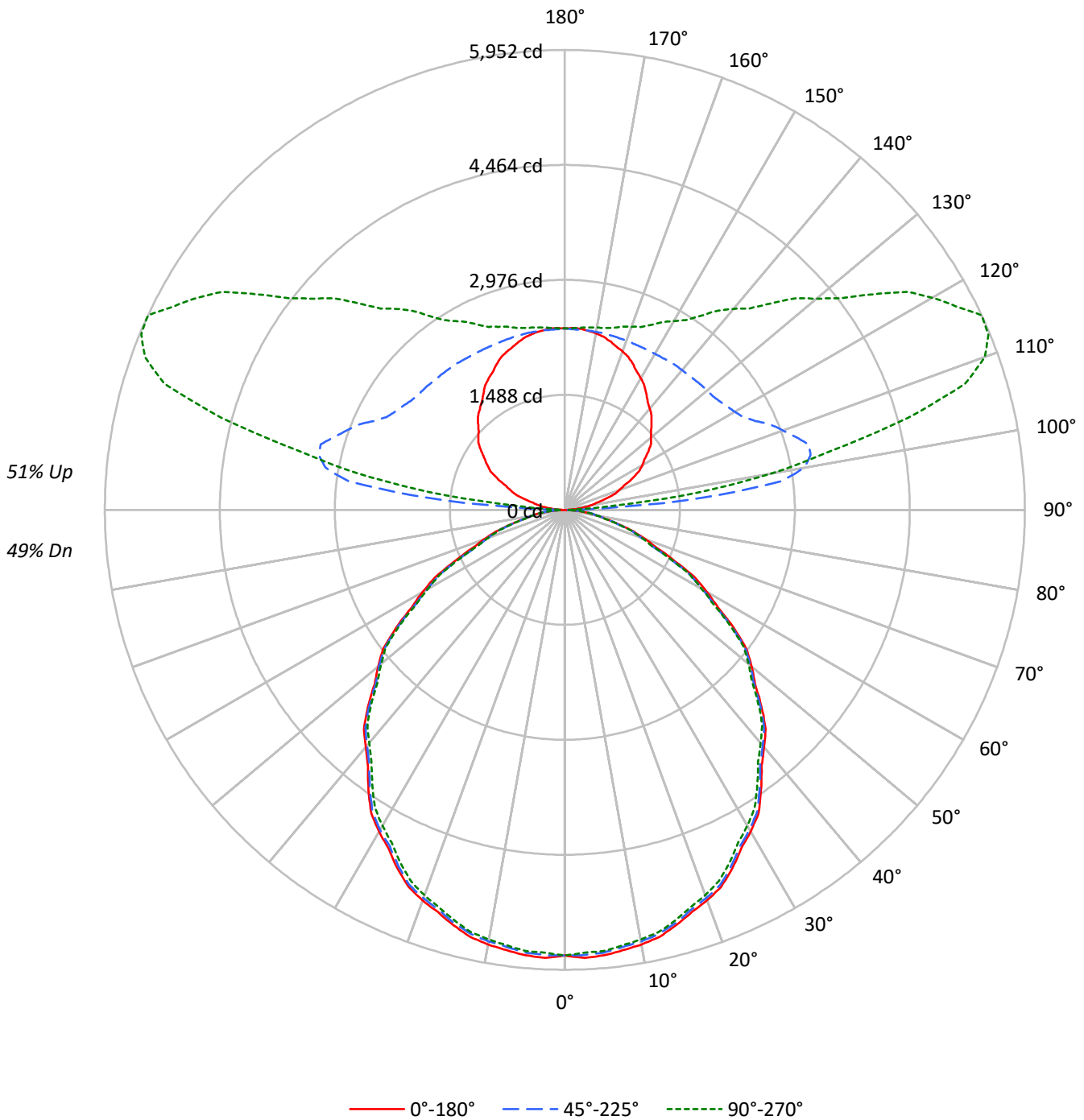
Lumens per Lamp: N/A
Luminaire Lumens: 29916.4 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

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	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49				
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42				
2	89	82	76	71	82	76	71	66	64	60	57	54	51	48	44	42	40	35				
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30				
4	75	64	56	50	69	59	52	47	50	45	41	42	38	35	35	32	30	26				
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26	23				
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23	20				
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16				
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14				
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17738	17738	17738
5°	17868	17759	17696
10°	17838	17712	17633
15°	17720	17623	17527
20°	17602	17503	17371
25°	17393	17273	17101
30°	17071	16981	16766
35°	16625	16511	16302
40°	16093	15992	15809
45°	15653	15543	15389
50°	15092	14995	14850
55°	14311	14121	14013
60°	13027	12654	12592
65°	11477	10998	10962
70°	9909	9500	9500
75°	8529	8409	8289
80°	7520	7610	7431
85°	5886	6422	6422



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.4	1.8
10°-20°	1557.3	5.2
20°-30°	2332.6	7.8
30°-40°	2736.0	9.1
40°-50°	2744.5	9.2
50°-60°	2341.3	7.8
60°-70°	1526.9	5.1
70°-80°	766.1	2.6
80°-90°	217.5	0.7
90°-100°	1097.8	3.7
100°-110°	2957.1	9.9
110°-120°	3103.4	10.4
120°-130°	2518.3	8.4
130°-140°	1975.0	6.6
140°-150°	1516.3	5.1
150°-160°	1090.2	3.6
160°-170°	666.1	2.2
170°-180°	224.6	0.8
0°-30°	4435.2	14.8
0°-40°	7171.2	24.0
0°-60°	12257.0	41.0
0°-90°	14767.5	49.4
90°-120°	7158.3	23.9
90°-150°	13168.0	44.0
90°-180°	15149.0	50.6
0°-180°	29916.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5768	5768	5768	5768	5768	
5°	5788	5734	5752	5732	5732	550
15°	5566	5511	5535	5515	5505	1570
25°	5126	5066	5090	5045	5040	2357
35°	4428	4384	4398	4347	4342	2766
45°	3599	3574	3574	3538	3538	2771
55°	2669	2659	2634	2618	2613	2372
65°	1577	1548	1511	1501	1506	1574
75°	718	718	708	702	698	779
85°	167	182	182	182	182	196
90°	6	18	36	39	39	18
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5767.7	5767.7	5767.7	5767.7	5767.7
2.5°	5804.0	5756.6	5767.7	5759.0	5735.3
5°	5787.9	5733.5	5752.5	5732.3	5732.3
7.5°	5748.4	5689.1	5708.0	5687.8	5686.8
10°	5712.0	5652.7	5671.6	5651.3	5646.3
12.5°	5659.5	5600.2	5623.1	5598.8	5597.8
15°	5565.5	5511.1	5535.1	5514.7	5504.8
17.5°	5459.3	5400.0	5429.0	5400.6	5396.6
20°	5378.4	5319.1	5348.1	5307.7	5307.7
22.5°	5281.4	5222.1	5255.1	5202.5	5202.5
25°	5125.7	5066.4	5090.3	5044.7	5039.7
27.5°	4940.7	4882.3	4907.3	4855.7	4854.7
30°	4807.2	4752.8	4781.9	4726.2	4721.3
32.5°	4661.6	4611.2	4632.3	4576.6	4571.7
35°	4428.1	4383.6	4397.8	4347.1	4342.2
37.5°	4182.4	4137.0	4153.1	4109.6	4107.6
40°	4008.5	3978.9	3983.3	3947.7	3937.8
42.5°	3846.8	3813.2	3817.5	3782.0	3780.1
45°	3599.1	3574.4	3573.8	3538.4	3538.4
47.5°	3336.2	3317.5	3312.0	3282.6	3281.6
50°	3154.3	3139.4	3134.0	3108.7	3103.7
52.5°	2964.2	2957.3	2939.9	2918.7	2917.7
55°	2669.0	2659.1	2633.6	2618.3	2613.4
57.5°	2348.5	2328.7	2300.0	2277.8	2281.8
60°	2118.0	2098.2	2057.3	2047.2	2047.2
62.5°	1895.6	1871.9	1830.9	1816.9	1824.8
65°	1577.1	1547.5	1511.4	1501.4	1506.4
67.5°	1288.0	1261.3	1222.3	1222.2	1218.2
70°	1102.0	1087.1	1056.5	1056.5	1056.5
72.5°	936.2	929.2	906.9	906.8	902.8
75°	717.8	717.8	707.7	702.5	697.6
77.5°	537.8	539.8	534.8	529.6	520.7
80°	424.6	434.5	429.7	424.5	419.6
82.5°	319.5	329.4	328.6	319.4	318.5
85°	166.8	181.6	182.0	182.0	182.0
87.5°	45.7	63.8	71.9	72.6	76.5
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

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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)