

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P845381

Luminaire Tested: **SQ4P-WB-125U-125D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845381
REPORT IS A COMBINATION OF REPORTS P700130 AND P700247
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-WB-125U-125D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

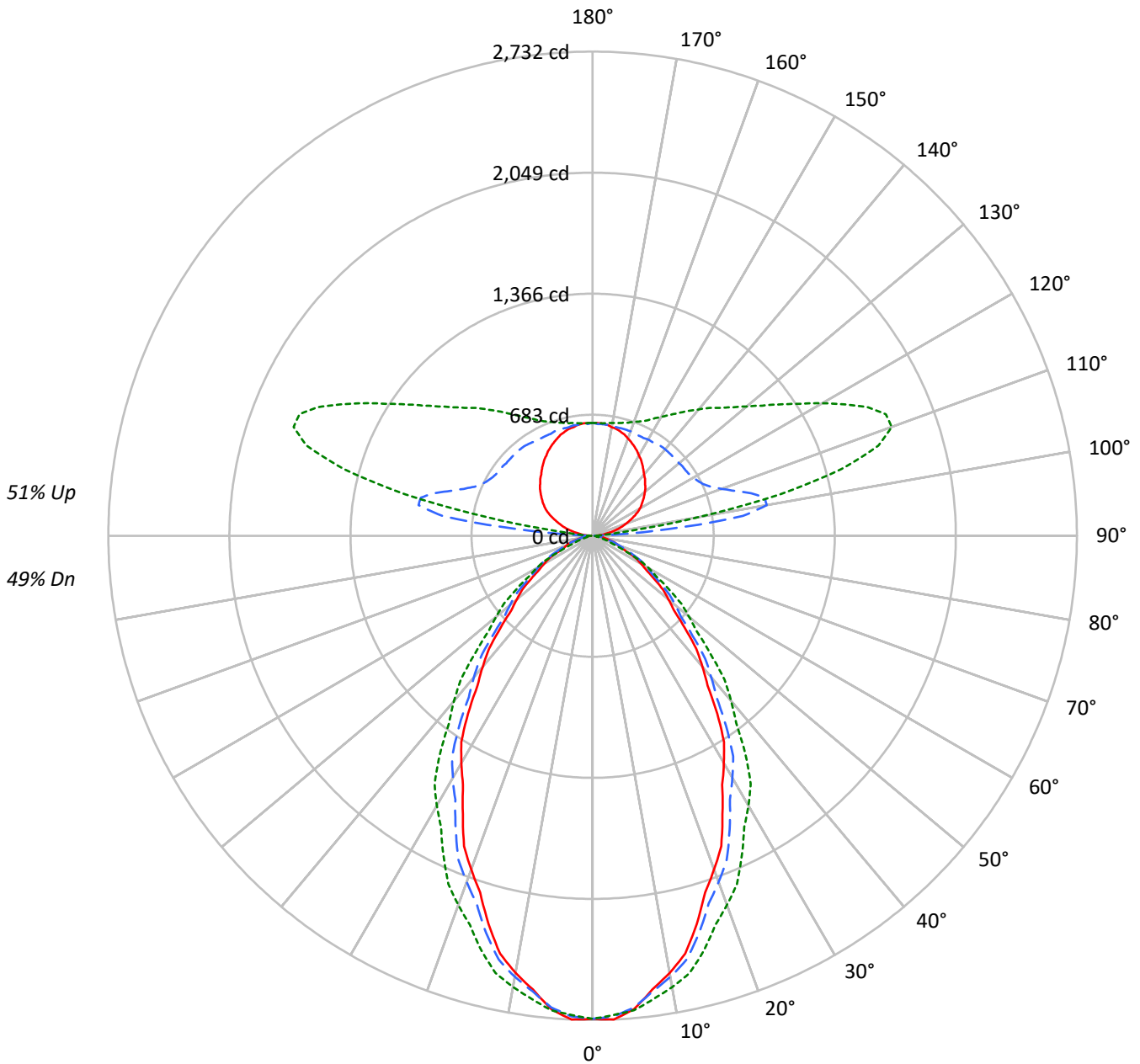
Lumens per Lamp: N/A
Luminaire Lumens: 8104.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 79.8
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 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	98	98	98	98	83	83	83	68	68	68	55	55	55	49								
1	99	95	91	88	91	88	85	82	74	72	70	62	60	59	51	50	49	44								
2	91	84	79	74	84	78	73	69	66	63	60	56	53	51	46	44	43	38								
3	84	75	68	63	77	70	64	59	60	55	52	50	47	45	42	40	38	34								
4	77	67	60	54	71	63	56	51	54	49	45	46	42	39	38	36	34	30								
5	71	61	53	48	66	56	50	45	49	44	40	42	38	35	35	32	30	27								
6	66	55	47	42	61	51	45	40	44	39	36	38	34	31	32	29	27	24								
7	61	50	43	37	57	47	40	35	41	36	32	35	31	28	30	27	25	22								
8	57	46	38	33	53	43	36	32	37	32	29	32	29	26	28	25	23	20								
9	54	42	35	30	50	39	33	29	35	30	26	30	26	23	26	23	21	19								
10	50	39	32	27	47	36	30	26	32	27	24	28	24	21	24	21	19	17								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25149	25149	25149
5°	24836	24746	24891
10°	23463	23677	24225
15°	21659	22165	23157
20°	19670	20409	21759
25°	17643	18606	20273
30°	15776	16805	18730
35°	13794	14791	16907
40°	11609	12532	14636
45°	9581	10407	12221
50°	7998	8721	10179
55°	6791	7483	8406
60°	5805	6490	6709
65°	4624	5456	4333
70°	4098	4257	2646
75°	3793	3458	1622
80°	3496	3177	1392
85°	3144	2922	1154



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.0	3.1
10°-20°	650.3	8.0
20°-30°	842.3	10.4
30°-40°	824.9	10.2
40°-50°	631.4	7.8
50°-60°	420.7	5.2
60°-70°	229.6	2.8
70°-80°	95.7	1.2
80°-90°	28.6	0.4
90°-100°	253.3	3.1
100°-110°	881.3	10.9
110°-120°	853.7	10.5
120°-130°	669.7	8.3
130°-140°	530.1	6.5
140°-150°	409.1	5.0
150°-160°	293.2	3.6
160°-170°	179.4	2.2
170°-180°	60.7	0.7
0°-30°	1742.7	21.5
0°-40°	2567.5	31.7
0°-60°	3619.6	44.7
0°-90°	3973.6	49.0
90°-120°	1988.3	24.5
90°-150°	3597.1	44.4
90°-180°	4130.0	51.0
0°-180°	8104.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2726	2726	2726	2726	2726	
5°	2682	2655	2672	2678	2688	249
15°	2268	2260	2320	2384	2424	633
25°	1733	1738	1828	1907	1992	797
35°	1225	1231	1313	1402	1501	761
45°	734	748	798	858	937	573
55°	422	440	465	483	523	383
65°	212	229	250	218	198	220
75°	106	106	97	67	46	114
85°	30	30	28	18	11	32
90°	10	14	14	10	5	7
95°	43	147	427	109	66	45
105°	147	209	926	1563	1453	155
115°	256	309	689	1453	1714	253
125°	347	427	641	1083	1292	310
135°	418	470	636	902	1021	324
145°	489	522	632	779	845	306
155°	556	575	622	693	717	256
165°	608	613	627	655	660	171
175°	636	636	632	641	636	60
180°	636	636	636	636	636	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2725.8	2725.8	2725.8	2725.8	2725.8
2.5°	2732.5	2708.2	2714.4	2714.2	2706.5
5°	2681.7	2654.6	2671.9	2678.1	2687.6
7.5°	2582.0	2561.7	2593.4	2616.7	2635.6
10°	2504.5	2486.9	2527.3	2561.4	2585.8
12.5°	2414.7	2399.7	2449.8	2495.3	2527.5
15°	2267.6	2259.5	2320.5	2383.5	2424.4
17.5°	2110.6	2106.6	2176.4	2250.0	2302.3
20°	2003.4	2002.3	2078.7	2155.6	2216.2
22.5°	1895.4	1897.7	1978.2	2058.1	2127.4
25°	1733.1	1737.7	1827.7	1907.2	1991.5
27.5°	1583.1	1585.3	1677.9	1762.1	1852.0
30°	1480.8	1486.5	1577.4	1664.6	1758.1
32.5°	1378.4	1385.3	1474.3	1564.2	1659.6
35°	1224.7	1230.6	1313.2	1401.7	1501.1
37.5°	1066.2	1074.4	1147.8	1231.1	1329.2
40°	963.9	975.8	1040.5	1119.4	1215.2
42.5°	865.3	880.0	940.1	1014.8	1101.2
45°	734.3	748.4	797.6	858.0	936.6
47.5°	621.4	637.6	675.6	727.6	794.4
50°	557.2	572.7	607.6	646.0	709.2
52.5°	500.9	516.1	547.2	577.0	630.9
55°	422.2	439.8	465.2	483.0	522.6
57.5°	357.7	374.5	394.8	402.6	426.8
60°	314.6	333.3	351.7	350.6	363.6
62.5°	275.4	291.3	309.5	296.8	297.6
65°	211.8	229.4	249.9	218.5	198.5
67.5°	171.2	174.7	196.0	152.5	128.6
70°	151.9	151.9	157.8	118.0	98.1
72.5°	133.8	133.8	128.4	95.8	75.0
75°	106.4	106.4	97.0	66.6	45.5
77.5°	82.0	81.2	74.2	49.5	33.1
80°	65.8	65.8	59.8	39.2	26.2
82.5°	51.5	51.5	46.3	30.6	19.5
85°	29.7	29.7	27.6	17.9	10.9
87.5°	10.6	10.6	9.5	5.7	4.9
90°	9.5	14.3	14.3	9.5	4.8
92.5°	23.8	71.2	66.4	28.5	23.8
95°	42.8	147.3	427.4	109.2	66.4
97.5°	66.4	166.3	854.9	389.5	209.0
100°	90.2	175.8	997.4	935.6	603.2
102.5°	118.7	189.9	992.7	1315.6	1082.9
105°	147.3	209.0	926.1	1562.6	1453.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	228.0	280.3	721.9	1572.1	1790.6
115°	256.5	308.7	688.7	1453.4	1714.5
117.5°	285.0	342.0	669.6	1344.2	1605.3
120°	308.7	370.5	655.4	1239.6	1496.1
122.5°	327.7	399.0	646.0	1154.1	1386.8
125°	346.7	427.4	641.2	1082.9	1291.9
127.5°	365.7	446.4	641.2	1030.6	1206.4
130°	384.7	455.9	636.5	978.4	1135.1
132.5°	403.8	460.7	636.5	940.4	1073.4
135°	417.9	470.2	636.5	902.4	1021.1
137.5°	436.9	479.7	636.5	869.2	978.4
140°	451.2	494.0	636.5	835.9	930.9
142.5°	470.2	508.2	636.5	802.6	888.1
145°	489.2	522.5	631.7	778.9	845.4
147.5°	508.2	536.6	627.0	755.2	807.4
150°	522.5	550.9	627.0	731.4	774.1
152.5°	541.4	565.2	622.2	707.7	745.7
155°	555.7	574.7	622.2	693.4	717.2
157.5°	569.9	588.9	622.2	679.2	698.2
160°	584.2	598.4	627.0	669.6	683.9
162.5°	598.4	608.0	627.0	660.1	669.6
165°	608.0	612.7	627.0	655.4	660.1
167.5°	617.5	622.2	627.0	650.6	650.6
170°	622.2	627.0	631.7	646.0	646.0
172.5°	631.7	631.7	631.7	641.2	641.2
175°	636.5	636.5	631.7	641.2	636.5
177.5°	636.5	636.5	631.7	641.2	636.5
180°	636.5	636.5	636.5	636.5	636.5



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	175.8	232.7	840.7	1671.8	1690.9
110°	199.4	256.5	774.1	1657.6	1795.3



(END OF REPORT)