

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: P845369

Luminaire Tested: **SQ4P-WB-100U-125D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845369
REPORT IS A COMBINATION OF REPORTS P700102 AND P700246
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-WB-100U-125D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1000 LUMENS PER FOOT UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

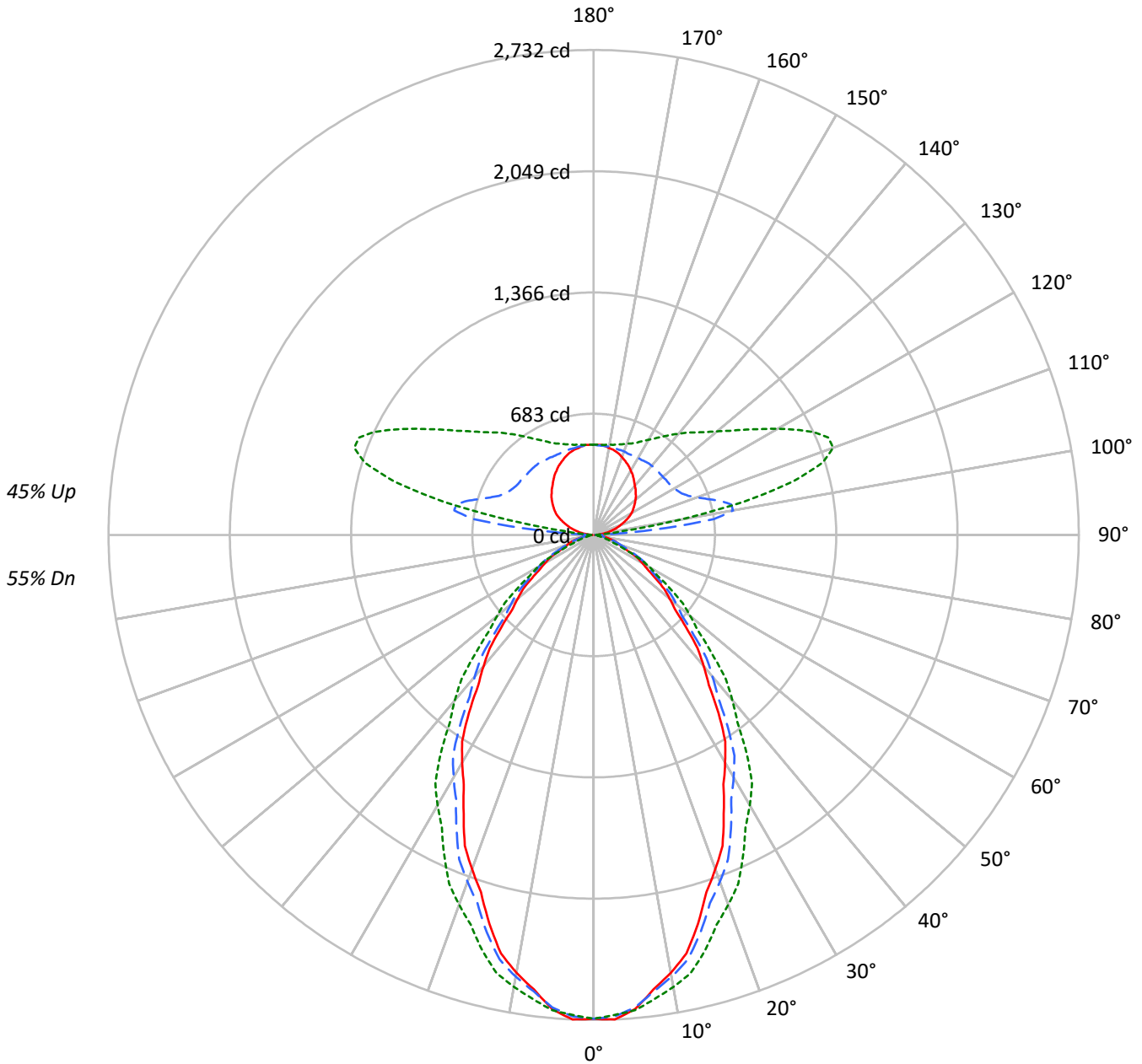
Lumens per Lamp: N/A
Luminaire Lumens: 7274.0 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 71.8
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	50	30	10	50	30	10	0			
RCR																														
0	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55												
1	100	96	93	90	93	90	87	84	77	75	73	66	64	63	55	54	53	48												
2	92	85	80	75	86	80	75	71	69	66	63	59	57	55	50	49	47	43												
3	85	76	70	64	79	71	66	61	62	58	54	54	50	48	46	43	42	38												
4	78	69	61	56	73	64	58	53	56	51	47	49	45	42	42	39	37	34												
5	73	62	54	49	67	58	51	46	51	46	42	44	41	38	38	35	33	30												
6	67	56	49	43	63	53	46	41	47	41	37	41	37	34	35	32	30	27												
7	63	51	44	38	58	48	42	37	43	37	34	38	33	30	33	30	27	25												
8	58	47	40	35	55	44	38	33	39	34	30	35	31	28	30	27	25	23												
9	55	43	36	31	51	41	34	30	36	31	28	32	28	25	28	25	23	21												
10	51	40	33	28	48	38	32	27	34	29	25	30	26	23	27	23	21	19												

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	3.4
10°-20°	650.3	8.9
20°-30°	842.3	11.6
30°-40°	824.9	11.3
40°-50°	631.4	8.7
50°-60°	420.7	5.8
60°-70°	229.6	3.2
70°-80°	95.7	1.3
80°-90°	28.3	0.4
90°-100°	202.4	2.8
100°-110°	704.3	9.7
110°-120°	682.2	9.4
120°-130°	535.2	7.4
130°-140°	423.6	5.8
140°-150°	326.9	4.5
150°-160°	234.3	3.2
160°-170°	143.3	2.0
170°-180°	48.5	0.7
0°-30°	1742.7	24.0
0°-40°	2567.5	35.3
0°-60°	3619.6	49.8
0°-90°	3973.2	54.6
90°-120°	1588.9	21.8
90°-150°	2874.6	39.5
90°-180°	3301.0	45.4
0°-180°	7274.0	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°	8	11	11	8	4	6
95°	34	118	342	87	53	36
105°	118	167	740	1249	1162	124
115°	205	247	550	1162	1370	202
125°	277	342	512	865	1032	248
135°	334	376	509	721	816	259
145°	391	418	505	622	676	245
155°	444	459	497	554	573	205
165°	486	490	501	524	528	137
175°	509	509	505	512	509	48
180°	509	509	509	509	509	



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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°	7.6	11.4	11.4	7.6	3.8
92.5°	19.0	57.0	53.1	22.8	19.0
95°	34.2	117.6	341.6	87.3	53.1
97.5°	53.1	132.9	683.2	311.3	167.0
100°	72.1	140.4	797.0	747.7	482.0
102.5°	94.9	151.8	793.2	1051.4	865.3
105°	117.6	167.0	740.1	1248.7	1161.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	182.2	223.9	577.0	1256.3	1431.0
115°	204.9	246.7	550.3	1161.5	1370.2
117.5°	227.7	273.3	535.2	1074.2	1282.9
120°	246.7	296.0	523.8	990.6	1195.6
122.5°	261.9	318.8	516.2	922.3	1108.3
125°	277.0	341.6	512.4	865.3	1032.4
127.5°	292.3	356.8	512.4	823.7	964.1
130°	307.5	364.4	508.6	781.9	907.1
132.5°	322.6	368.1	508.6	751.5	857.8
135°	334.0	375.8	508.6	721.2	816.0
137.5°	349.2	383.3	508.6	694.6	781.9
140°	360.6	394.8	508.6	668.0	743.9
142.5°	375.8	406.1	508.6	641.5	709.8
145°	390.9	417.6	504.8	622.5	675.6
147.5°	406.1	428.9	501.0	603.5	645.3
150°	417.6	440.3	501.0	584.5	618.6
152.5°	432.7	451.7	497.2	565.5	595.9
155°	444.1	459.2	497.2	554.2	573.1
157.5°	455.4	470.7	497.2	542.8	558.0
160°	466.9	478.2	501.0	535.2	546.5
162.5°	478.2	485.9	501.0	527.5	535.2
165°	485.9	489.7	501.0	523.8	527.5
167.5°	493.4	497.2	501.0	520.0	520.0
170°	497.2	501.0	504.8	516.2	516.2
172.5°	504.8	504.8	504.8	512.4	512.4
175°	508.6	508.6	504.8	512.4	508.6
177.5°	508.6	508.6	504.8	512.4	508.6
180°	508.6	508.6	508.6	508.6	508.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	140.4	186.0	671.8	1336.0	1351.2
110°	159.4	204.9	618.6	1324.7	1434.7



(END OF REPORT)