

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: P845372

Luminaire Tested: **SQ4P-WB-125U-050D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845372
REPORT IS A COMBINATION OF REPORTS P700127 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-050D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

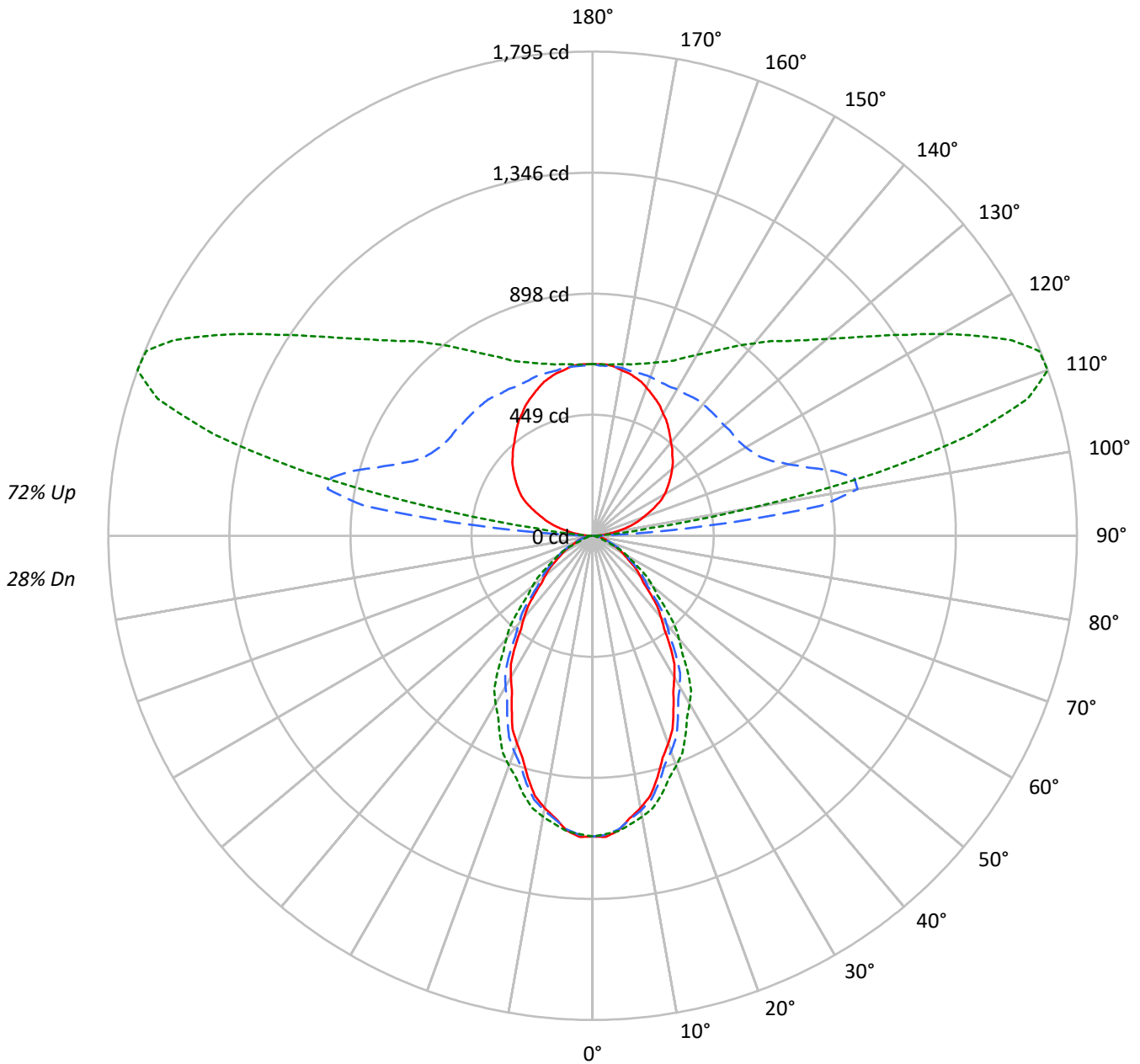
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5756.3 lumens
Efficiency: N/A
Efficacy: 113.3 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: Semi-Indirect

Input Watts (W): 50.8
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				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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28				28
1	94	90	86	83	84	80	78	75	63	61	60	47	46	45	33	32	32	25				25
2	86	79	73	69	77	71	66	62	56	53	50	42	40	39	30	29	28	22				22
3	79	70	63	58	70	63	57	53	50	46	43	38	36	34	27	26	24	20				20
4	72	62	55	50	65	56	50	45	45	41	37	34	32	29	25	23	22	17				17
5	66	56	48	43	59	50	44	39	40	36	32	31	28	26	22	21	19	16				16
6	61	50	43	37	55	45	39	34	37	32	29	28	25	23	21	19	17	14				14
7	57	45	38	33	51	41	35	30	33	29	25	26	23	20	19	17	16	13				13
8	53	41	34	29	47	38	31	27	31	26	23	24	21	18	18	16	14	12				12
9	49	38	31	26	44	34	28	24	28	24	20	22	19	17	16	14	13	11				11
10	46	35	28	23	41	32	26	22	26	21	18	20	17	15	15	13	12	10				10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10285	10285	10285
5°	10157	10121	10179
10°	9596	9683	9907
15°	8858	9065	9470
20°	8045	8347	8898
25°	7216	7609	8292
30°	6452	6874	7660
35°	5641	6048	6916
40°	4748	5126	5986
45°	3918	4258	4997
50°	3271	3567	4162
55°	2776	3059	3437
60°	2375	2653	2744
65°	1891	2231	1770
70°	1675	1743	1082
75°	1551	1412	663
80°	1429	1302	574
85°	1281	1196	466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.3	1.8
10°-20°	266.0	4.6
20°-30°	344.5	6.0
30°-40°	337.3	5.9
40°-50°	258.2	4.5
50°-60°	172.1	3.0
60°-70°	93.9	1.6
70°-80°	39.1	0.7
80°-90°	12.6	0.2
90°-100°	253.3	4.4
100°-110°	881.3	15.3
110°-120°	853.7	14.8
120°-130°	669.7	11.6
130°-140°	530.1	9.2
140°-150°	409.1	7.1
150°-160°	293.2	5.1
160°-170°	179.4	3.1
170°-180°	60.7	1.1
0°-30°	712.7	12.4
0°-40°	1050.0	18.2
0°-60°	1480.3	25.7
0°-90°	1625.9	28.2
90°-120°	1988.3	34.5
90°-150°	3597.1	62.5
90°-180°	4130.0	71.7
0°-180°	5756.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1115	1115	1115	1115	1115	
5°	1097	1086	1093	1095	1099	102
15°	927	924	949	975	992	259
25°	709	711	747	780	814	326
35°	501	503	537	573	614	311
45°	300	306	326	351	383	234
55°	173	180	190	198	214	157
65°	87	94	102	89	81	90
75°	44	44	40	27	19	46
85°	12	12	11	7	4	13
90°	10	14	14	10	5	6
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°	1114.8	1114.8	1114.8	1114.8	<i>1114.8</i>
2.5°	1117.5	1107.5	1110.1	1110.0	<i>1106.9</i>
5°	1096.7	1085.6	1092.8	1095.3	<i>1099.1</i>
7.5°	1056.0	1047.7	1060.6	1070.2	<i>1077.9</i>
10°	1024.3	1017.1	1033.6	1047.6	<i>1057.5</i>
12.5°	987.6	981.4	1002.0	1020.5	<i>1033.7</i>
15°	927.4	924.1	949.0	974.7	<i>991.5</i>
17.5°	863.2	861.5	890.1	920.2	<i>941.6</i>
20°	819.4	818.9	850.1	881.6	<i>906.3</i>
22.5°	775.1	776.1	809.0	841.7	<i>870.0</i>
25°	708.8	710.7	747.4	780.0	<i>814.5</i>
27.5°	647.4	648.3	686.2	720.6	<i>757.4</i>
30°	605.6	607.9	645.2	680.8	<i>719.0</i>
32.5°	563.8	566.5	603.0	639.7	<i>678.7</i>
35°	500.8	503.3	537.0	573.2	<i>614.0</i>
37.5°	436.0	439.4	469.4	503.5	<i>543.6</i>
40°	394.2	399.1	425.6	457.8	<i>497.0</i>
42.5°	353.9	359.9	384.5	415.0	<i>450.3</i>
45°	300.3	306.1	326.3	350.9	<i>383.0</i>
47.5°	254.1	260.8	276.2	297.6	<i>324.9</i>
50°	227.9	234.2	248.5	264.2	<i>290.0</i>
52.5°	204.8	211.1	223.8	235.9	<i>258.0</i>
55°	172.6	179.9	190.2	197.6	<i>213.7</i>
57.5°	146.3	153.1	161.5	164.7	<i>174.5</i>
60°	128.7	136.3	143.8	143.4	<i>148.7</i>
62.5°	112.6	119.2	126.5	121.3	<i>121.7</i>
65°	86.6	93.7	102.2	89.3	<i>81.1</i>
67.5°	70.0	71.4	80.1	62.3	<i>52.6</i>
70°	62.1	62.1	64.6	48.2	<i>40.1</i>
72.5°	54.7	54.7	52.5	39.2	<i>30.6</i>
75°	43.5	43.5	39.6	27.2	<i>18.6</i>
77.5°	33.6	33.2	30.3	20.3	<i>13.5</i>
80°	26.9	26.9	24.5	16.0	<i>10.8</i>
82.5°	21.0	21.0	19.0	12.5	<i>7.9</i>
85°	12.1	12.1	11.3	7.3	<i>4.4</i>
87.5°	4.3	4.3	3.9	2.3	<i>2.0</i>
90°	9.5	14.3	14.3	9.5	<i>4.8</i>
92.5°	23.8	71.2	66.4	28.5	<i>23.8</i>
95°	42.8	147.3	427.4	109.2	<i>66.4</i>
97.5°	66.4	166.3	854.9	389.5	<i>209.0</i>
100°	90.2	175.8	997.4	935.6	<i>603.2</i>
102.5°	118.7	189.9	992.7	1315.6	<i>1082.9</i>
105°	147.3	209.0	926.1	1562.6	<i>1453.4</i>



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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)