

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: P845373

Luminaire Tested: **SQ4P-WB-125U-050D-B40-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845373
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-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT
UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

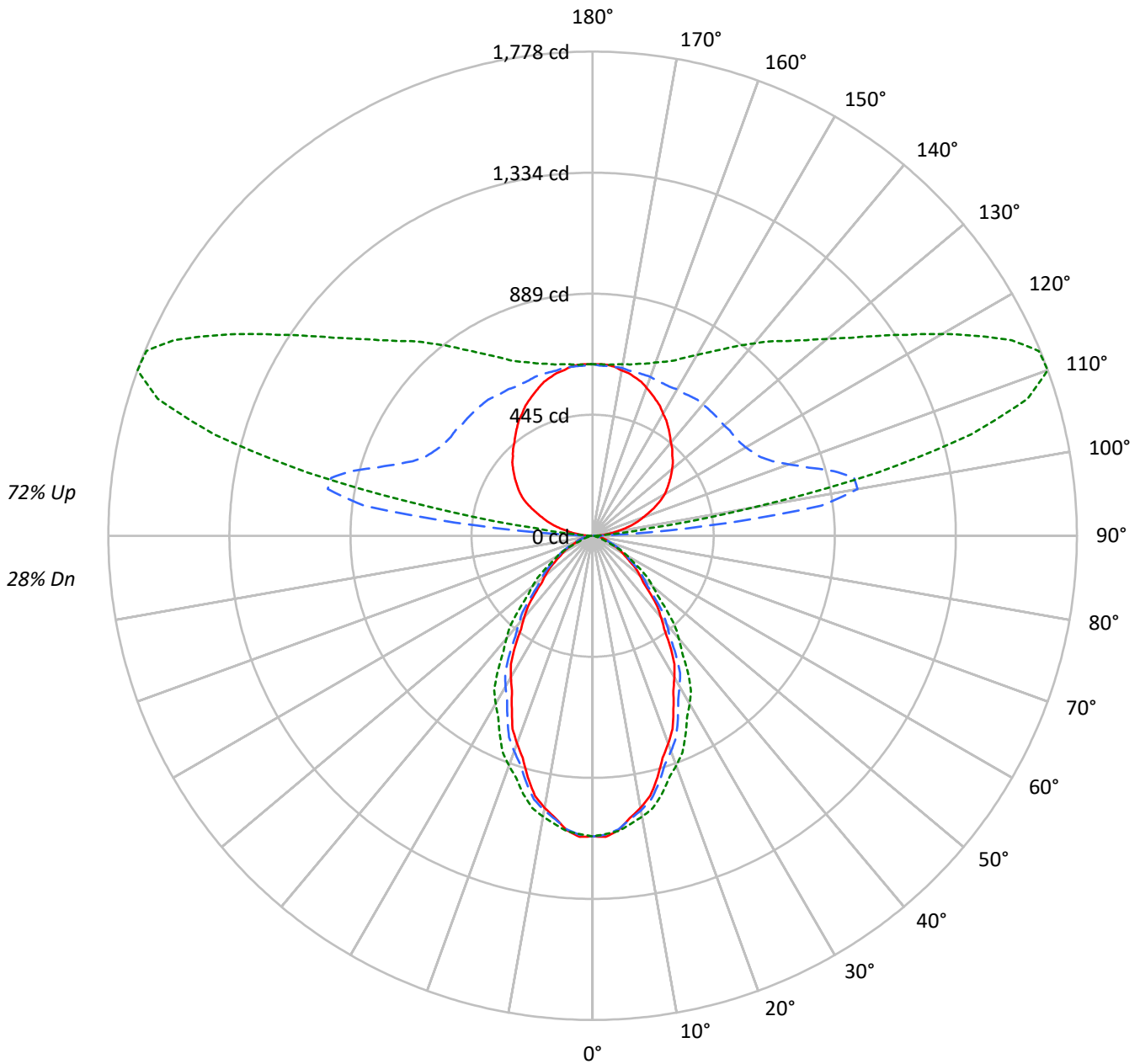
Lumens per Lamp: N/A
Luminaire Lumens: 5700.4 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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°	10186	10186	10186
5°	10058	10023	10081
10°	9503	9589	9812
15°	8772	8977	9379
20°	7967	8265	8812
25°	7145	7535	8211
30°	6390	6807	7585
35°	5587	5990	6848
40°	4701	5075	5928
45°	3880	4216	4949
50°	3240	3531	4122
55°	2749	3030	3404
60°	2351	2629	2718
65°	1873	2209	1753
70°	1659	1726	1071
75°	1536	1397	656
80°	1413	1286	569
85°	1270	1175	466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	1.8
10°-20°	263.4	4.6
20°-30°	341.1	6.0
30°-40°	334.1	5.9
40°-50°	255.7	4.5
50°-60°	170.4	3.0
60°-70°	93.0	1.6
70°-80°	38.7	0.7
80°-90°	12.5	0.2
90°-100°	250.8	4.4
100°-110°	872.7	15.3
110°-120°	845.4	14.8
120°-130°	663.2	11.6
130°-140°	524.9	9.2
140°-150°	405.1	7.1
150°-160°	290.4	5.1
160°-170°	177.6	3.1
170°-180°	60.1	1.1
0°-30°	705.8	12.4
0°-40°	1039.8	18.2
0°-60°	1465.9	25.7
0°-90°	1610.1	28.2
90°-120°	1969.0	34.5
90°-150°	3562.1	62.5
90°-180°	4090.0	71.7
0°-180°	5700.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1104	1104	1104	1104	1104	
5°	1086	1075	1082	1085	1088	101
15°	918	915	940	965	982	256
25°	702	704	740	772	807	323
35°	496	498	532	568	608	308
45°	297	303	323	348	379	232
55°	171	178	188	196	212	155
65°	86	93	101	88	80	89
75°	43	43	39	27	18	46
85°	12	12	11	7	4	13
90°	9	14	14	9	5	6
95°	42	146	423	108	66	45
105°	146	207	917	1547	1439	153
115°	254	306	682	1439	1698	251
125°	343	423	635	1072	1279	307
135°	414	466	630	894	1011	321
145°	484	517	626	771	837	303
155°	550	569	616	687	710	254
165°	602	607	621	649	654	170
175°	630	630	626	635	630	60
180°	630	630	630	630	630	



TEST NUMBER: P845373

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1104.0	1104.0	1104.0	1104.0	<i>1104.0</i>
2.5°	1106.7	1096.8	1099.3	1099.2	<i>1096.1</i>
5°	1086.0	1075.1	1082.2	1084.7	<i>1088.5</i>
7.5°	1045.7	1037.5	1050.3	1059.8	<i>1067.4</i>
10°	1014.3	1007.2	1023.5	1037.4	<i>1047.3</i>
12.5°	978.0	971.9	992.2	1010.6	<i>1023.6</i>
15°	918.4	915.1	939.8	965.3	<i>981.9</i>
17.5°	854.8	853.2	881.5	911.3	<i>932.4</i>
20°	811.4	810.9	841.8	873.0	<i>897.5</i>
22.5°	767.6	768.6	801.1	833.5	<i>861.6</i>
25°	701.9	703.8	740.2	772.4	<i>806.6</i>
27.5°	641.1	642.0	679.5	713.6	<i>750.1</i>
30°	599.8	602.0	638.9	674.2	<i>712.0</i>
32.5°	558.3	561.0	597.1	633.5	<i>672.1</i>
35°	496.0	498.4	531.8	567.7	<i>608.0</i>
37.5°	431.8	435.1	464.9	498.6	<i>538.3</i>
40°	390.3	395.2	421.4	453.3	<i>492.2</i>
42.5°	350.5	356.4	380.7	411.0	<i>446.0</i>
45°	297.4	303.1	323.1	347.5	<i>379.3</i>
47.5°	251.7	258.3	273.6	294.7	<i>321.7</i>
50°	225.7	231.9	246.0	261.6	<i>287.2</i>
52.5°	202.8	209.0	221.6	233.6	<i>255.5</i>
55°	170.9	178.1	188.4	195.7	<i>211.6</i>
57.5°	144.9	151.7	159.9	163.1	<i>172.8</i>
60°	127.4	135.0	142.5	142.0	<i>147.3</i>
62.5°	111.5	118.0	125.3	120.2	<i>120.6</i>
65°	85.8	92.8	101.2	88.5	<i>80.3</i>
67.5°	69.3	70.7	79.4	61.7	<i>52.1</i>
70°	61.5	61.5	64.0	47.8	<i>39.7</i>
72.5°	54.2	54.2	51.9	38.9	<i>30.3</i>
75°	43.1	43.1	39.2	26.9	<i>18.4</i>
77.5°	33.2	32.9	30.0	20.1	<i>13.4</i>
80°	26.6	26.6	24.2	15.9	<i>10.7</i>
82.5°	20.8	20.8	18.8	12.4	<i>7.8</i>
85°	12.0	12.0	11.1	7.3	<i>4.4</i>
87.5°	4.3	4.3	3.9	2.3	<i>1.9</i>
90°	9.4	14.1	14.1	9.4	<i>4.7</i>
92.5°	23.5	70.5	65.8	28.2	<i>23.5</i>
95°	42.3	145.8	423.3	108.1	<i>65.8</i>
97.5°	65.8	164.6	846.6	385.7	<i>207.0</i>
100°	89.3	174.0	987.7	926.5	<i>597.3</i>
102.5°	117.5	188.1	983.0	1302.8	<i>1072.4</i>
105°	145.8	207.0	917.1	1547.4	<i>1439.3</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	225.8	277.5	714.9	1556.8	1773.2
115°	254.0	305.7	682.0	1439.3	1697.9
117.5°	282.2	338.7	663.1	1331.1	1589.7
120°	305.7	366.9	649.1	1227.6	1481.6
122.5°	324.5	395.1	639.7	1142.9	1373.4
125°	343.3	423.3	634.9	1072.4	1279.4
127.5°	362.1	442.1	634.9	1020.6	1194.7
130°	380.9	451.5	630.3	968.9	1124.1
132.5°	399.8	456.2	630.3	931.3	1063.0
135°	413.9	465.6	630.3	893.7	1011.2
137.5°	432.7	475.0	630.3	860.7	968.9
140°	446.8	489.2	630.3	827.8	921.9
142.5°	465.6	503.2	630.3	794.8	879.5
145°	484.4	517.4	625.5	771.4	837.2
147.5°	503.2	531.4	620.9	747.8	799.6
150°	517.4	545.6	620.9	724.3	766.6
152.5°	536.2	559.7	616.1	700.8	738.4
155°	550.3	569.1	616.1	686.7	710.2
157.5°	564.4	583.2	616.1	672.6	691.4
160°	578.5	592.6	620.9	663.1	677.3
162.5°	592.6	602.1	620.9	653.7	663.1
165°	602.1	606.7	620.9	649.1	653.7
167.5°	611.5	616.1	620.9	644.3	644.3
170°	616.1	620.9	625.5	639.7	639.7
172.5°	625.5	625.5	625.5	634.9	634.9
175°	630.3	630.3	625.5	634.9	630.3
177.5°	630.3	630.3	625.5	634.9	630.3
180°	630.3	630.3	630.3	630.3	630.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	174.0	230.4	832.5	1655.5	1674.4
110°	197.5	254.0	766.6	1641.5	1777.8



(END OF REPORT)