

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: P845333

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

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P845333  
REPORT IS A COMBINATION OF REPORTS P700214 AND P700244  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-WB-050U-125D-B35-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 500 LUMENS PER FOOT  
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

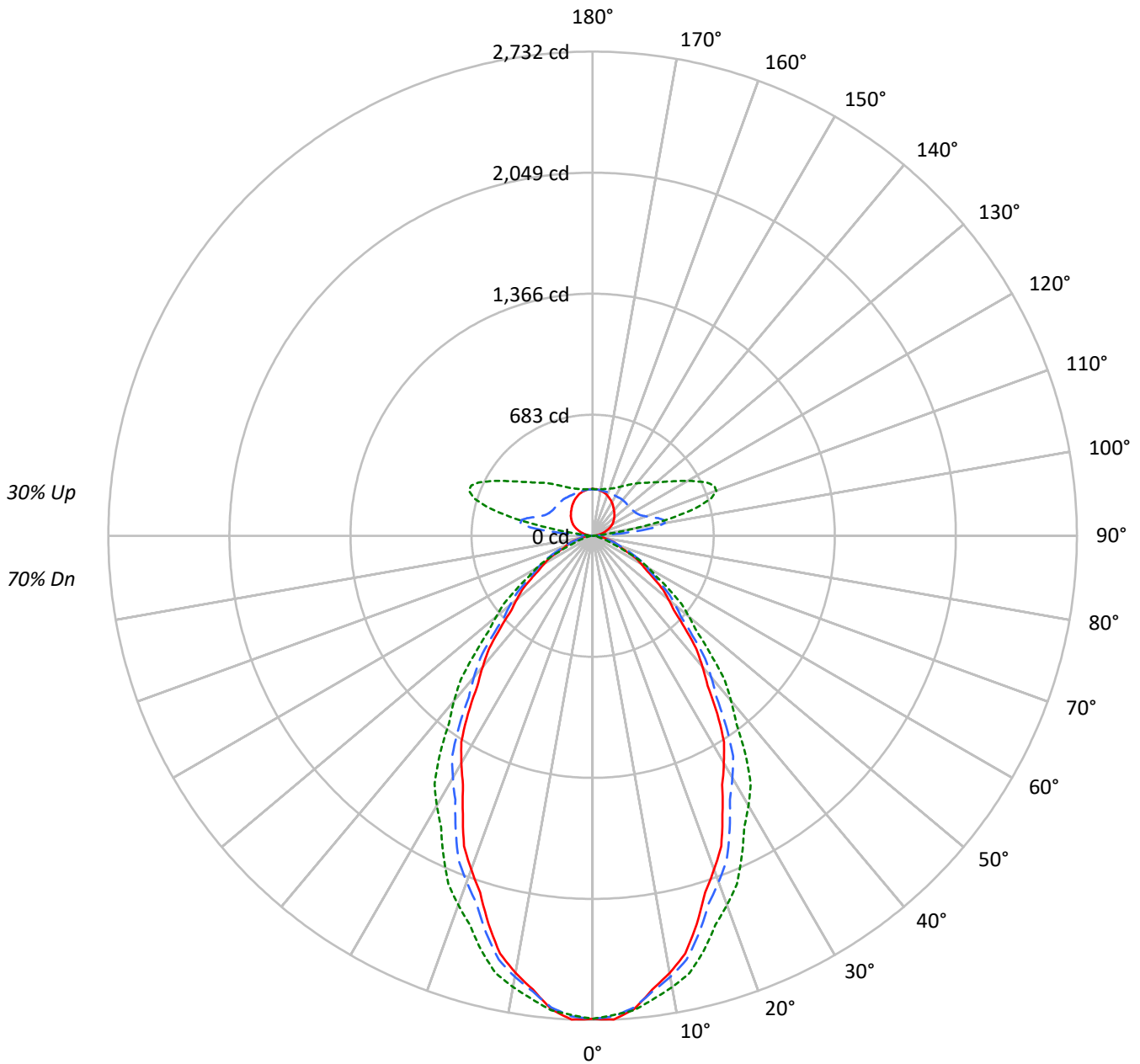
Lumens per Lamp: N/A  
Luminaire Lumens: 5682.8 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 58.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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									
RC	80									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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74	70																
1	104	100	97	93	98	95	92	89	85	83	81	76	75	73	68	67	66	66	66	66	62																
2	96	89	84	79	91	85	80	76	77	73	70	69	66	64	62	60	58	58	58	58	55																
3	89	80	73	68	84	76	70	66	69	65	61	63	59	56	57	54	51	51	51	51	48																
4	82	72	65	59	78	69	62	57	63	58	53	57	53	50	52	49	46	46	46	46	43																
5	76	65	58	52	72	63	56	51	57	52	47	52	48	44	48	44	41	41	41	41	39																
6	71	60	52	47	67	57	50	45	52	47	42	48	43	40	44	40	37	37	37	37	35																
7	66	55	47	42	63	52	45	41	48	42	38	44	40	36	41	37	34	34	34	34	32																
8	62	50	43	38	59	48	41	37	45	39	35	41	36	33	38	34	31	31	31	31	29																
9	58	46	39	34	55	45	38	33	41	36	32	38	34	30	35	31	29	29	29	29	27																
10	55	43	36	31	52	41	35	31	38	33	29	36	31	28	33	29	26	26	26	26	25																

**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	4.4
10°-20°	650.3	11.4
20°-30°	842.3	14.8
30°-40°	824.9	14.5
40°-50°	631.4	11.1
50°-60°	420.7	7.4
60°-70°	229.6	4.0
70°-80°	95.7	1.7
80°-90°	27.7	0.5
90°-100°	104.9	1.8
100°-110°	364.9	6.4
110°-120°	353.5	6.2
120°-130°	277.3	4.9
130°-140°	219.5	3.9
140°-150°	169.4	3.0
150°-160°	121.4	2.1
160°-170°	74.3	1.3
170°-180°	25.1	0.4
0°-30°	1742.7	30.7
0°-40°	2567.5	45.2
0°-60°	3619.6	63.7
0°-90°	3972.6	69.9
90°-120°	823.3	14.5
90°-150°	1489.4	26.2
90°-180°	1710.0	30.1
0°-180°	5682.8	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°	4	6	6	4	2	4
95°	18	61	177	45	28	19
105°	61	86	384	647	602	64
115°	106	128	285	602	710	105
125°	144	177	266	448	535	129
135°	173	195	264	374	423	134
145°	203	216	262	322	350	127
155°	230	238	258	287	297	106
165°	252	254	260	271	273	71
175°	264	264	262	266	264	25
180°	264	264	264	264	264	



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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°	3.9	5.9	5.9	3.9	2.0
92.5°	9.8	29.5	27.5	11.8	9.8
95°	17.7	61.0	177.0	45.2	27.5
97.5°	27.5	68.8	353.9	161.3	86.5
100°	37.4	72.8	413.0	387.4	249.7
102.5°	49.1	78.7	411.0	544.7	448.4
105°	61.0	86.5	383.5	646.9	601.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	94.4	116.1	299.0	650.9	741.4
115°	106.2	127.8	285.2	601.7	709.9
117.5°	118.0	141.6	277.2	556.5	664.6
120°	127.8	153.3	271.4	513.3	619.4
122.5°	135.7	165.2	267.4	477.8	574.2
125°	143.6	177.0	265.5	448.4	534.9
127.5°	151.4	184.9	265.5	426.8	499.5
130°	159.3	188.8	263.5	405.1	470.0
132.5°	167.1	190.7	263.5	389.4	444.5
135°	173.0	194.6	263.5	373.6	422.8
137.5°	180.9	198.6	263.5	359.8	405.1
140°	186.8	204.5	263.5	346.1	385.5
142.5°	194.6	210.4	263.5	332.3	367.7
145°	202.6	216.4	261.6	322.5	350.0
147.5°	210.4	222.2	259.6	312.7	334.3
150°	216.4	228.1	259.6	302.9	320.6
152.5°	224.2	234.0	257.7	293.0	308.7
155°	230.1	238.0	257.7	287.1	296.9
157.5°	235.9	243.9	257.7	281.2	289.1
160°	241.9	247.8	259.6	277.2	283.2
162.5°	247.8	251.7	259.6	273.3	277.2
165°	251.7	253.6	259.6	271.4	273.3
167.5°	255.6	257.7	259.6	269.4	269.4
170°	257.7	259.6	261.6	267.4	267.4
172.5°	261.6	261.6	261.6	265.5	265.5
175°	263.5	263.5	261.6	265.5	263.5
177.5°	263.5	263.5	261.6	265.5	263.5
180°	263.5	263.5	263.5	263.5	263.5



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	72.8	96.4	348.1	692.2	700.1
110°	82.6	106.2	320.6	686.3	743.3



(END OF REPORT)