

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: P845393

Luminaire Tested: **SQ4P-WB-150U-125D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845393
REPORT IS A COMBINATION OF REPORTS P700158 AND P700248
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-WB-150U-125D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

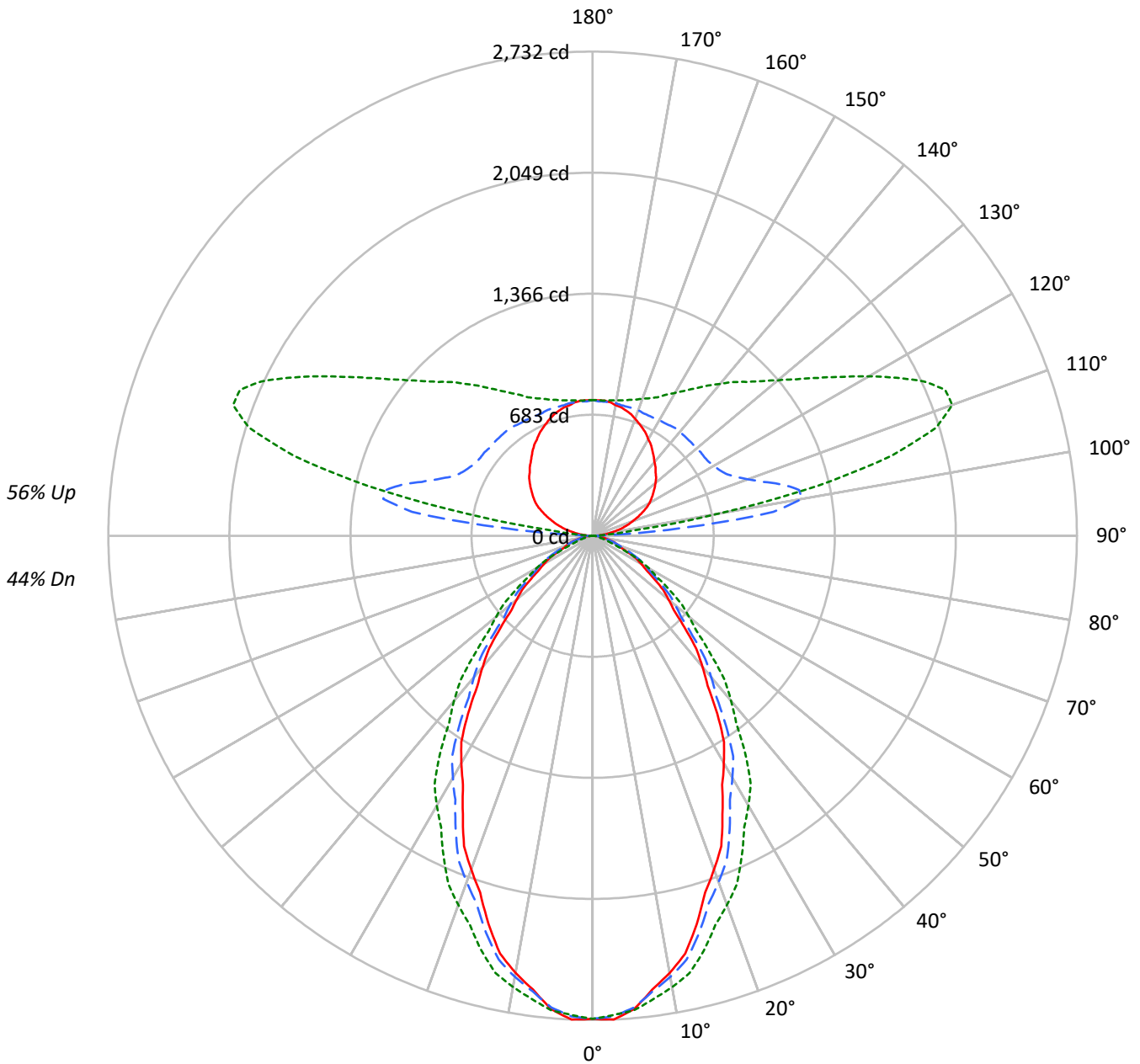
Lumens per Lamp: N/A
Luminaire Lumens: 8940.7 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 88.8
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									
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44																			
1	98	94	90	87	89	86	83	80	72	70	68	59	57	56	47	46	45	39																			
2	90	83	77	73	82	76	72	68	64	61	58	53	51	48	42	41	40	35																			
3	82	74	67	62	76	68	62	58	58	53	50	48	45	42	38	37	35	31																			
4	76	66	59	53	70	61	55	50	52	47	44	43	40	37	35	33	31	27																			
5	70	59	52	46	64	55	49	44	47	42	38	39	36	33	32	30	28	25																			
6	65	54	46	41	60	50	43	39	43	38	34	36	32	29	30	27	25	22																			
7	60	49	42	36	55	46	39	34	39	34	30	33	29	27	27	25	23	20																			
8	56	45	37	32	52	42	35	31	36	31	27	31	27	24	25	23	21	18																			
9	53	41	34	29	48	38	32	28	33	28	25	28	25	22	24	21	19	17																			
10	49	38	31	27	45	35	29	25	31	26	23	26	23	20	22	20	18	16																			

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	2.8
10°-20°	650.3	7.3
20°-30°	842.3	9.4
30°-40°	824.9	9.2
40°-50°	631.4	7.1
50°-60°	420.7	4.7
60°-70°	229.6	2.6
70°-80°	95.7	1.1
80°-90°	28.9	0.3
90°-100°	304.6	3.4
100°-110°	1059.8	11.9
110°-120°	1026.6	11.5
120°-130°	805.3	9.0
130°-140°	637.4	7.1
140°-150°	491.9	5.5
150°-160°	352.6	3.9
160°-170°	215.7	2.4
170°-180°	73.0	0.8
0°-30°	1742.7	19.5
0°-40°	2567.5	28.7
0°-60°	3619.6	40.5
0°-90°	3973.9	44.4
90°-120°	2391.0	26.7
90°-150°	4325.6	48.4
90°-180°	4967.0	55.6
0°-180°	8940.7	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°	11	17	17	11	6	8
95°	51	177	514	131	80	54
105°	177	251	1114	1879	1748	186
115°	308	371	828	1748	2062	305
125°	417	514	771	1302	1554	373
135°	503	565	765	1085	1228	390
145°	588	628	760	937	1017	368
155°	668	691	748	834	862	308
165°	731	737	754	788	794	206
175°	765	765	760	771	765	72
180°	765	765	765	765	765	



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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°	11.4	17.1	17.1	11.4	5.7
92.5°	28.6	85.6	79.9	34.2	28.6
95°	51.4	177.0	514.0	131.3	79.9
97.5°	79.9	199.9	1028.1	468.3	251.3
100°	108.5	211.3	1199.4	1125.2	725.3
102.5°	142.8	228.5	1193.7	1582.0	1302.2
105°	177.0	251.3	1113.7	1879.0	1747.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	274.1	337.0	868.1	1890.5	2153.1
115°	308.4	371.3	828.2	1747.7	2061.8
117.5°	342.7	411.2	805.3	1616.3	1930.4
120°	371.3	445.4	788.1	1490.6	1799.1
122.5°	394.1	479.8	776.8	1387.9	1667.7
125°	417.0	514.0	771.0	1302.2	1553.5
127.5°	439.8	536.8	771.0	1239.4	1450.7
130°	462.7	548.3	765.3	1176.5	1365.0
132.5°	485.5	554.0	765.3	1130.8	1290.7
135°	502.6	565.4	765.3	1085.1	1227.9
137.5°	525.5	576.9	765.3	1045.2	1176.5
140°	542.6	594.0	765.3	1005.2	1119.4
142.5°	565.4	611.1	765.3	965.3	1068.0
145°	588.3	628.2	759.6	936.7	1016.6
147.5°	611.1	645.4	753.9	908.1	970.9
150°	628.2	662.5	753.9	879.5	930.9
152.5°	651.1	679.6	748.2	851.0	896.7
155°	668.3	691.1	748.2	833.8	862.4
157.5°	685.4	708.2	748.2	816.7	839.6
160°	702.5	719.6	753.9	805.3	822.4
162.5°	719.6	731.1	753.9	793.9	805.3
165°	731.1	736.8	753.9	788.1	793.9
167.5°	742.4	748.2	753.9	782.5	782.5
170°	748.2	753.9	759.6	776.8	776.8
172.5°	759.6	759.6	759.6	771.0	771.0
175°	765.3	765.3	759.6	771.0	765.3
177.5°	765.3	765.3	759.6	771.0	765.3
180°	765.3	765.3	765.3	765.3	765.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	211.3	279.9	1011.0	2010.4	2033.3
110°	239.8	308.4	930.9	1993.2	2158.9



(END OF REPORT)