

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: P845379

Luminaire Tested: **SQ4P-WB-125U-100D-B40-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845379
REPORT IS A COMBINATION OF REPORTS P700129 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-100D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT
UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

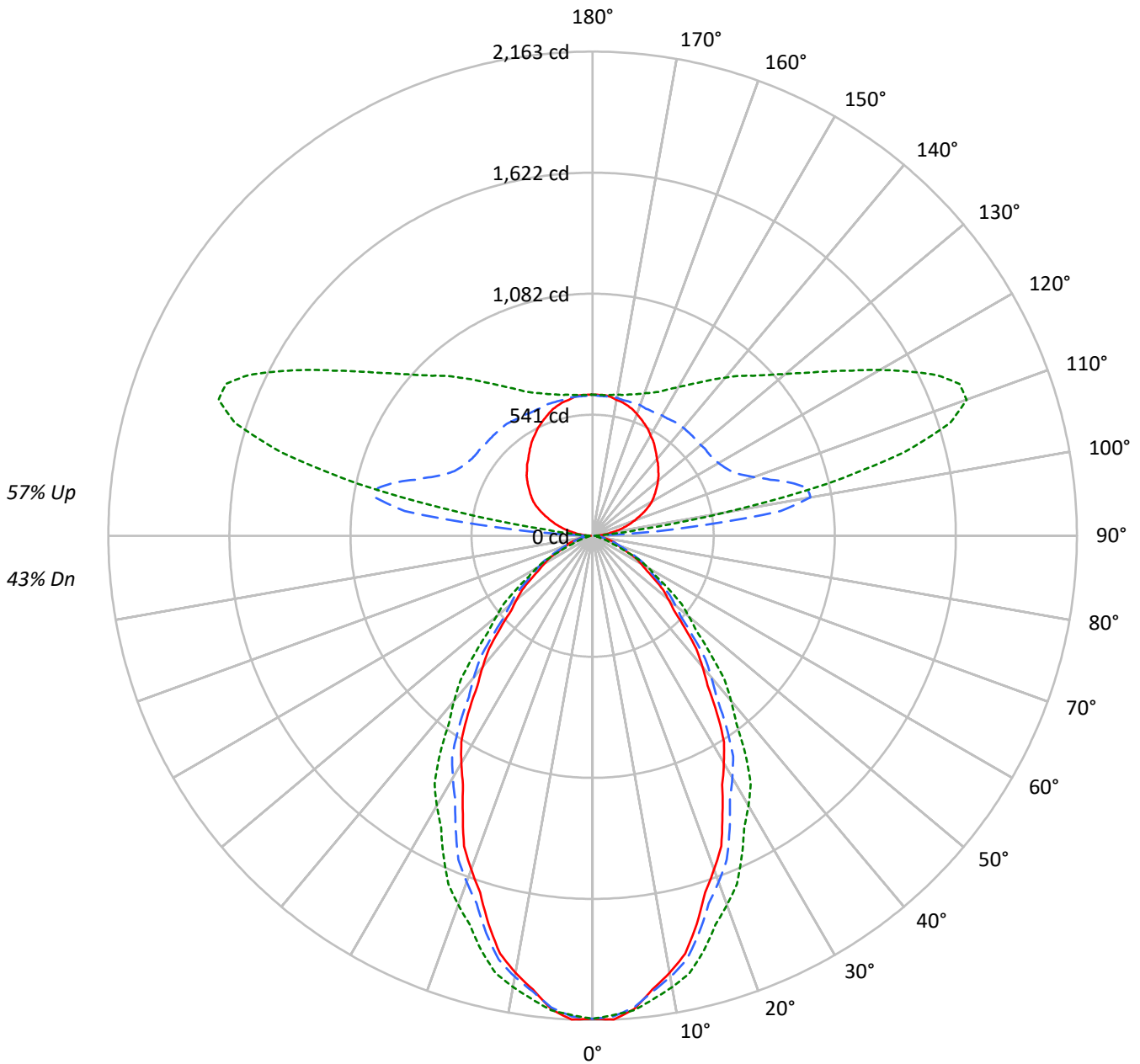
Lumens per Lamp: N/A
Luminaire Lumens: 7236.3 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68.9
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

TEST NUMBER: P845379

CATALOG NUMBER: SQ4P-WB-125U-100D-B40-1D-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P845379

CATALOG NUMBER: SQ4P-WB-125U-100D-B40-1D-UNV

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	0					
RCR																										
0	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	43								
1	97	93	90	87	89	86	83	80	71	69	67	58	57	55	46	45	44	39								
2	89	83	77	73	82	76	71	67	64	60	57	52	50	48	42	40	39	34								
3	82	74	67	62	75	68	62	58	57	53	50	47	44	42	38	36	34	30								
4	76	66	59	53	69	61	55	50	51	47	43	43	39	37	35	32	30	27								
5	70	59	52	46	64	55	48	43	47	42	38	39	35	33	32	29	27	24								
6	65	54	46	41	59	50	43	38	42	37	34	36	32	29	29	27	25	22								
7	60	49	41	36	55	45	39	34	39	34	30	33	29	26	27	24	22	20								
8	56	45	37	32	51	41	35	31	36	31	27	30	26	24	25	22	20	18								
9	52	41	34	29	48	38	32	28	33	28	25	28	24	22	23	21	19	17								
10	49	38	31	26	45	35	29	25	30	26	22	26	22	20	22	19	17	15								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19910	19910	19910
5°	19662	19592	19707
10°	18576	18745	19178
15°	17148	17547	18333
20°	15573	16158	17227
25°	13968	14729	16051
30°	12490	13304	14829
35°	10920	11709	13386
40°	9191	9922	11587
45°	7585	8240	9674
50°	6331	6904	8058
55°	5376	5923	6655
60°	4595	5137	5312
65°	3659	4320	3430
70°	3245	3372	2093
75°	3002	2734	1283
80°	2768	2518	1105
85°	2488	2318	900



TEST NUMBER: P845379

CATALOG NUMBER: SQ4P-WB-125U-100D-B40-1D-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	2.7
10°-20°	514.9	7.1
20°-30°	666.9	9.2
30°-40°	653.0	9.0
40°-50°	499.8	6.9
50°-60°	333.1	4.6
60°-70°	181.8	2.5
70°-80°	75.8	1.0
80°-90°	22.9	0.3
90°-100°	250.8	3.5
100°-110°	872.7	12.1
110°-120°	845.4	11.7
120°-130°	663.2	9.2
130°-140°	524.9	7.3
140°-150°	405.1	5.6
150°-160°	290.4	4.0
160°-170°	177.6	2.5
170°-180°	60.1	0.8
0°-30°	1379.7	19.1
0°-40°	2032.7	28.1
0°-60°	2865.6	39.6
0°-90°	3146.1	43.5
90°-120°	1969.0	27.2
90°-150°	3562.1	49.2
90°-180°	4090.0	56.5
0°-180°	7236.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2158	2158	2158	2158	2158	
5°	2123	2102	2115	2120	2128	197
15°	1795	1789	1837	1887	1919	501
25°	1372	1376	1447	1510	1577	631
35°	970	974	1040	1110	1188	603
45°	581	592	632	679	741	453
55°	334	348	368	382	414	303
65°	168	182	198	173	157	174
75°	84	84	77	53	36	90
85°	24	24	22	14	8	26
90°	9	14	14	9	5	7
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: P845379

CATALOG NUMBER: SQ4P-WB-125U-100D-B40-1D-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2158.0	2158.0	2158.0	2158.0	2158.0
2.5°	2163.3	2144.1	2149.0	2148.8	2142.8
5°	2123.0	2101.6	2115.4	2120.2	2127.8
7.5°	2044.1	2028.1	2053.2	2071.6	2086.6
10°	1982.8	1968.9	2000.8	2027.9	2047.1
12.5°	1911.7	1899.8	1939.6	1975.5	2001.1
15°	1795.3	1788.9	1837.1	1887.1	1919.4
17.5°	1671.0	1667.8	1723.0	1781.3	1822.7
20°	1586.1	1585.2	1645.7	1706.5	1754.6
22.5°	1500.5	1502.4	1566.1	1629.4	1684.2
25°	1372.1	1375.8	1446.9	1510.0	1576.7
27.5°	1253.4	1255.1	1328.4	1395.1	1466.2
30°	1172.4	1176.8	1248.8	1317.9	1391.9
32.5°	1091.4	1096.7	1167.2	1238.4	1313.9
35°	969.5	974.3	1039.6	1109.8	1188.5
37.5°	844.2	850.5	908.7	974.7	1052.3
40°	763.1	772.5	823.8	886.2	962.1
42.5°	685.1	696.7	744.2	803.5	871.8
45°	581.3	592.5	631.5	679.3	741.4
47.5°	492.0	504.8	534.8	576.0	628.9
50°	441.1	453.3	481.0	511.5	561.4
52.5°	396.5	408.6	433.3	456.8	499.5
55°	334.2	348.1	368.2	382.4	413.7
57.5°	283.2	296.4	312.5	318.7	337.8
60°	249.0	263.9	278.4	277.6	287.9
62.5°	218.0	230.6	245.0	234.9	235.6
65°	167.6	181.6	197.9	173.0	157.1
67.5°	135.5	138.3	155.2	120.6	101.8
70°	120.3	120.3	125.0	93.4	77.6
72.5°	105.9	105.9	101.7	75.9	59.4
75°	84.2	84.2	76.7	52.7	36.0
77.5°	64.9	64.3	58.7	39.2	26.2
80°	52.1	52.1	47.4	31.1	20.8
82.5°	40.7	40.7	36.6	24.2	15.4
85°	23.5	23.5	21.9	14.1	8.5
87.5°	8.3	8.3	7.5	4.5	3.9
90°	9.4	14.1	14.1	9.4	4.7
92.5°	23.5	70.5	65.8	28.2	23.5
95°	42.3	145.8	423.3	108.1	65.8
97.5°	65.8	164.6	846.6	385.7	207.0
100°	89.3	174.0	987.7	926.5	597.3
102.5°	117.5	188.1	983.0	1302.8	1072.4
105°	145.8	207.0	917.1	1547.4	1439.3



TEST NUMBER: P845379

CATALOG NUMBER: SQ4P-WB-125U-100D-B40-1D-UNV

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)