

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: P845130

Luminaire Tested: **SQ4P-PP3-125U-125D-B40-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845130
REPORT IS A COMBINATION OF REPORTS P700118 AND P700247
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-125U-125D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

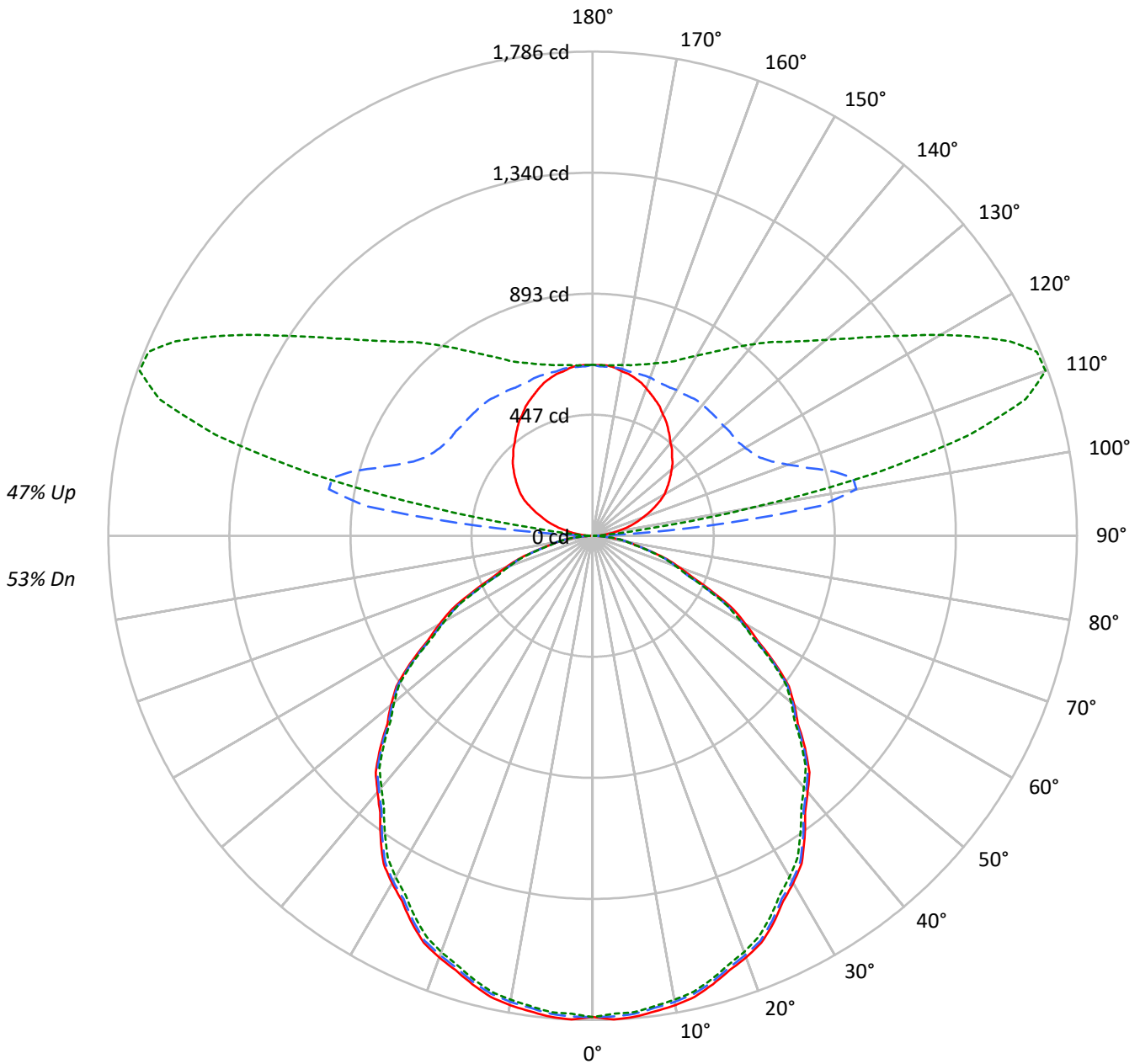
Lumens per Lamp: N/A
Luminaire Lumens: 8634.7 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 79.8
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					
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53								
1	99	94	91	87	91	88	84	81	75	72	70	63	61	60	52	51	50	45								
2	90	83	77	71	83	77	71	67	66	62	58	55	53	50	46	44	42	38								
3	82	73	65	60	76	68	61	56	58	53	49	49	46	43	41	38	36	32								
4	75	64	57	51	69	60	53	48	52	46	42	44	40	37	37	34	31	28								
5	69	57	49	43	64	54	46	41	46	41	36	39	35	32	33	30	27	24								
6	64	52	43	38	59	48	41	36	42	36	32	36	31	28	30	27	24	21								
7	59	47	39	33	54	44	36	31	38	32	28	32	28	25	27	24	21	19								
8	55	42	35	29	51	40	33	28	34	29	25	30	25	22	25	22	19	17								
9	51	39	31	26	47	36	29	25	32	26	22	27	23	20	23	20	17	15								
10	48	35	28	23	44	33	27	22	29	24	20	25	21	18	22	18	16	14								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16377	16377	16377
5°	16496	16395	16338
10°	16469	16354	16281
15°	16360	16270	16181
20°	16251	16159	16038
25°	16057	15949	15790
30°	15762	15679	15478
35°	15349	15243	15050
40°	14856	14763	14595
45°	14453	14353	14208
50°	13933	13844	13709
55°	13211	13037	12939
60°	12027	11686	11627
65°	10599	10154	10119
70°	9145	8770	8770
75°	7878	7760	7650
80°	6939	7029	6854
85°	5431	5928	5928



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	1.9
10°-20°	479.2	5.6
20°-30°	717.8	8.3
30°-40°	842.0	9.8
40°-50°	844.6	9.8
50°-60°	720.5	8.3
60°-70°	469.9	5.4
70°-80°	235.7	2.7
80°-90°	66.8	0.8
90°-100°	250.8	2.9
100°-110°	872.7	10.1
110°-120°	845.4	9.8
120°-130°	663.2	7.7
130°-140°	524.9	6.1
140°-150°	405.1	4.7
150°-160°	290.4	3.4
160°-170°	177.6	2.1
170°-180°	60.1	0.7
0°-30°	1364.9	15.8
0°-40°	2206.9	25.6
0°-60°	3772.1	43.7
0°-90°	4544.5	52.6
90°-120°	1969.0	22.8
90°-150°	3562.1	41.3
90°-180°	4090.0	47.4
0°-180°	8634.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1775	1775	1775	1775	1775	
5°	1781	1765	1770	1764	1764	169
15°	1713	1696	1703	1697	1694	483
25°	1577	1559	1567	1552	1551	725
35°	1363	1349	1353	1338	1336	851
45°	1108	1100	1100	1089	1089	853
55°	821	818	810	806	804	730
65°	486	476	465	462	464	484
75°	221	221	218	216	215	240
85°	51	56	56	56	56	60
90°	9	14	14	9	5	8
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: P845130

CATALOG NUMBER: SQ4P-PP3-125U-125D-B40-1D-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1775.0	1775.0	1775.0	1775.0	1775.0
2.5°	1786.1	1771.5	1775.0	1772.4	1765.1
5°	1781.2	1764.6	1770.2	1764.1	1764.1
7.5°	1769.1	1750.9	1756.5	1750.4	1750.1
10°	1757.9	1739.7	1745.6	1739.1	1737.8
12.5°	1741.8	1723.6	1730.6	1723.0	1722.8
15°	1712.8	1696.0	1703.4	1697.0	1694.0
17.5°	1680.1	1661.8	1670.8	1662.1	1660.8
20°	1655.2	1636.9	1645.8	1633.5	1633.5
22.5°	1625.4	1607.2	1617.4	1601.0	1601.0
25°	1577.3	1559.1	1566.7	1552.4	1551.1
27.5°	1520.6	1502.5	1510.3	1494.2	1494.0
30°	1479.5	1462.6	1471.7	1454.6	1452.9
32.5°	1434.7	1419.1	1425.6	1408.4	1406.8
35°	1362.8	1349.1	1353.4	1337.9	1336.2
37.5°	1287.2	1273.3	1278.1	1264.6	1264.1
40°	1233.5	1224.4	1225.8	1214.7	1211.8
42.5°	1183.9	1173.4	1174.8	1163.7	1163.3
45°	1107.7	1100.0	1100.0	1088.9	1088.9
47.5°	1026.7	1020.8	1019.3	1010.2	1009.9
50°	970.7	966.2	964.5	956.8	955.1
52.5°	912.2	910.0	904.7	898.2	898.0
55°	821.3	818.4	810.5	805.7	804.4
57.5°	722.8	716.7	707.8	701.1	702.2
60°	651.8	645.6	633.3	630.1	630.1
62.5°	583.4	576.1	563.5	559.2	561.7
65°	485.5	476.4	465.1	462.1	463.5
67.5°	396.4	388.1	376.0	376.0	374.9
70°	339.0	334.4	325.1	325.1	325.1
72.5°	288.1	285.9	279.2	279.0	277.8
75°	221.0	221.0	217.7	216.2	214.6
77.5°	165.5	166.0	164.6	163.1	160.1
80°	130.6	133.8	132.3	130.6	129.0
82.5°	98.5	101.4	101.1	98.5	97.9
85°	51.3	55.8	56.0	56.0	56.0
87.5°	13.7	18.5	19.9	19.9	21.2
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: P845130

CATALOG NUMBER: SQ4P-PP3-125U-125D-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)