

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: P844961

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

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844961
REPORT IS A COMBINATION OF REPORTS P700110 AND P700247
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-F-125U-125D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

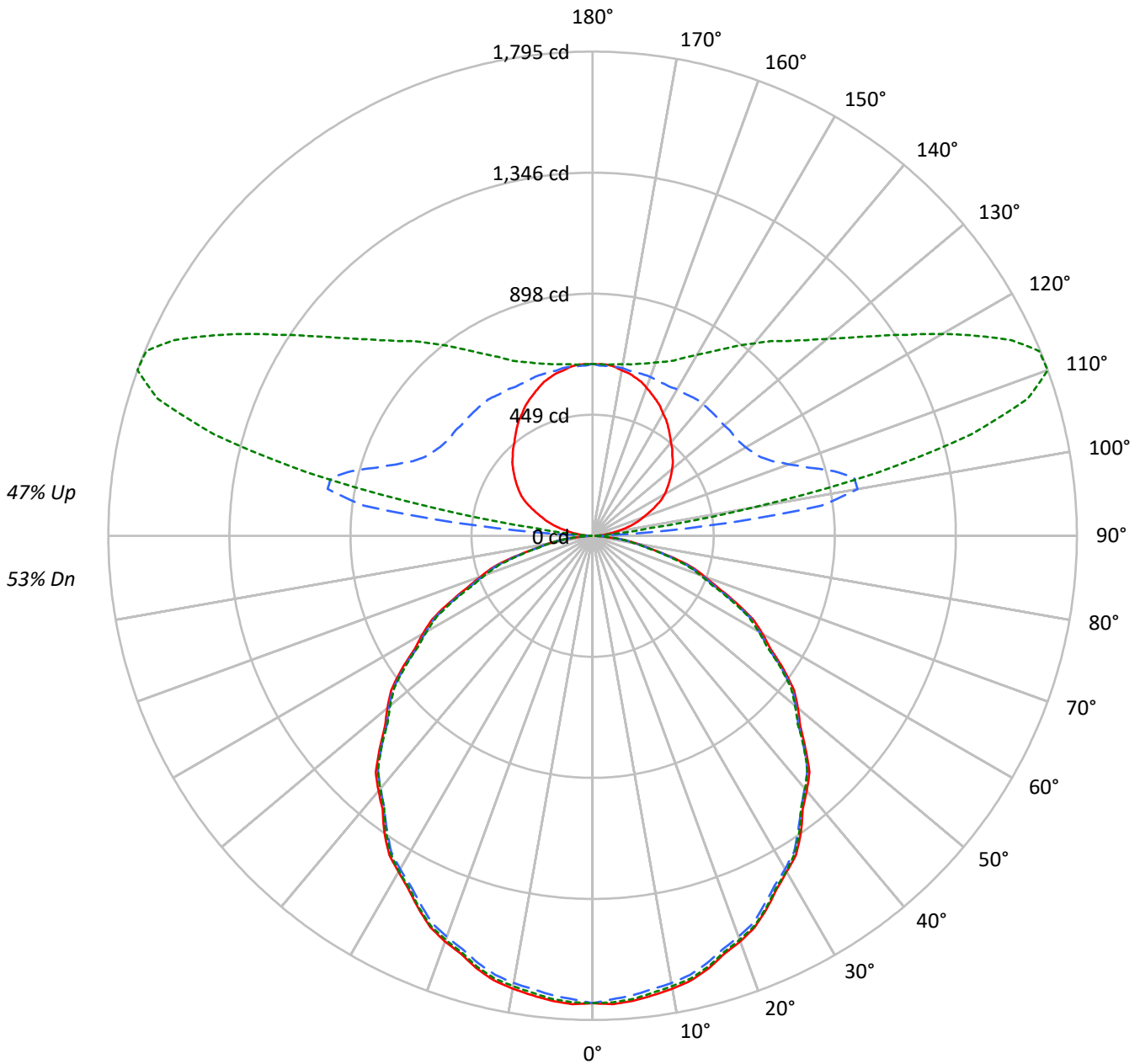
Lumens per Lamp: N/A
Luminaire Lumens: 8861.4 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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									
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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53																			
1	99	94	90	87	91	87	84	81	75	72	70	63	61	60	52	51	50	45																			
2	90	82	76	71	83	76	71	66	65	61	58	55	52	50	46	44	42	38																			
3	82	72	65	59	75	67	61	55	58	53	48	49	45	42	41	38	36	32																			
4	75	64	56	50	69	59	52	47	51	46	41	43	39	36	36	33	31	27																			
5	69	57	49	42	63	53	46	40	46	40	36	39	34	31	33	29	27	23																			
6	63	51	43	37	58	48	40	35	41	35	31	35	31	27	30	26	23	20																			
7	58	46	38	32	54	43	36	31	37	31	27	32	27	24	27	23	21	18																			
8	54	42	34	28	50	39	32	27	34	28	24	29	25	21	25	21	19	16																			
9	50	38	30	25	47	36	29	24	31	26	22	27	22	19	23	19	17	15																			
10	47	35	28	23	44	33	26	22	29	23	19	25	20	17	21	18	15	13																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15986	15986	15986
5°	16028	15835	15962
10°	15972	15777	15886
15°	15862	15664	15798
20°	15712	15532	15646
25°	15537	15349	15493
30°	15322	15198	15296
35°	15156	14973	15049
40°	14867	14723	14753
45°	14559	14439	14439
50°	14252	14119	14053
55°	13919	13732	13658
60°	13400	13184	13099
65°	12760	12509	12354
70°	11888	11635	11386
75°	10662	10334	10085
80°	8629	8517	8257
85°	5124	5907	6129



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	1.8
10°-20°	465.6	5.3
20°-30°	699.3	7.9
30°-40°	834.8	9.4
40°-50°	855.4	9.7
50°-60°	762.9	8.6
60°-70°	568.1	6.4
70°-80°	308.4	3.5
80°-90°	72.9	0.8
90°-100°	253.3	2.9
100°-110°	881.3	9.9
110°-120°	853.7	9.6
120°-130°	669.7	7.6
130°-140°	530.1	6.0
140°-150°	409.1	4.6
150°-160°	293.2	3.3
160°-170°	179.4	2.0
170°-180°	60.7	0.7
0°-30°	1328.4	15.0
0°-40°	2163.2	24.4
0°-60°	3781.5	42.7
0°-90°	4731.0	53.4
90°-120°	1988.3	22.4
90°-150°	3597.1	40.6
90°-180°	4130.0	46.6
0°-180°	8861.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1733	1733	1733	1733	1733	
5°	1731	1728	1710	1726	1724	164
15°	1661	1656	1640	1654	1654	468
25°	1526	1522	1508	1517	1522	703
35°	1346	1341	1329	1329	1336	840
45°	1116	1118	1107	1104	1107	861
55°	865	865	854	847	849	771
65°	584	582	573	566	566	579
75°	299	297	290	285	283	316
85°	48	53	56	58	58	68
90°	10	14	14	10	5	7
95°	43	147	427	109	66	45
105°	147	209	926	1563	1453	155
115°	256	309	689	1453	1714	253
125°	347	427	641	1083	1292	310
135°	418	470	636	902	1021	324
145°	489	522	632	779	845	306
155°	556	575	622	693	717	256
165°	608	613	627	655	660	171
175°	636	636	632	641	636	60
180°	636	636	636	636	636	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1738.2	1734.7	1719.8	1732.7	1731.2
5°	1730.6	1728.1	1709.8	1725.7	1723.5
7.5°	1717.9	1713.6	1695.2	1711.1	1708.7
10°	1704.9	1700.3	1684.0	1697.8	1695.7
12.5°	1688.4	1685.7	1667.6	1681.4	1680.8
15°	1660.7	1656.1	1639.9	1654.0	1654.0
17.5°	1624.7	1622.1	1606.1	1619.3	1618.0
20°	1600.3	1596.0	1581.9	1593.6	1593.6
22.5°	1570.9	1568.2	1554.4	1563.8	1565.7
25°	1526.2	1521.9	1507.8	1517.3	1521.9
27.5°	1477.2	1473.7	1462.1	1467.9	1471.3
30°	1438.2	1438.2	1426.6	1429.0	1435.8
32.5°	1403.0	1403.0	1389.5	1391.9	1395.1
35°	1345.6	1341.0	1329.4	1329.4	1336.1
37.5°	1278.5	1276.3	1269.0	1267.6	1269.5
40°	1234.4	1231.9	1222.4	1224.9	1224.9
42.5°	1189.6	1187.2	1177.8	1174.8	1178.3
45°	1115.8	1118.2	1106.6	1104.1	1106.6
47.5°	1043.2	1043.2	1033.8	1027.2	1030.7
50°	992.9	992.9	983.7	979.1	979.1
52.5°	940.9	942.8	931.4	925.1	927.0
55°	865.3	865.3	853.7	846.9	849.1
57.5°	781.7	781.7	770.2	763.3	767.3
60°	726.2	726.2	714.5	707.5	709.9
62.5°	670.4	670.4	659.0	651.9	652.2
65°	584.5	582.3	573.0	565.9	565.9
67.5°	502.0	496.0	489.0	479.8	479.8
70°	440.7	438.3	431.3	422.1	422.1
72.5°	385.0	381.0	373.9	366.6	366.6
75°	299.1	296.7	289.9	285.3	282.9
77.5°	214.4	212.5	212.0	205.5	207.4
80°	162.4	162.4	160.3	155.4	155.4
82.5°	115.9	117.8	113.7	112.6	110.8
85°	48.4	53.0	55.8	57.9	57.9
87.5°	9.5	14.6	13.0	14.9	14.9
90°	9.5	14.3	14.3	9.5	4.8
92.5°	23.8	71.2	66.4	28.5	23.8
95°	42.8	147.3	427.4	109.2	66.4
97.5°	66.4	166.3	854.9	389.5	209.0
100°	90.2	175.8	997.4	935.6	603.2
102.5°	118.7	189.9	992.7	1315.6	1082.9
105°	147.3	209.0	926.1	1562.6	1453.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	228.0	280.3	721.9	1572.1	1790.6
115°	256.5	308.7	688.7	1453.4	1714.5
117.5°	285.0	342.0	669.6	1344.2	1605.3
120°	308.7	370.5	655.4	1239.6	1496.1
122.5°	327.7	399.0	646.0	1154.1	1386.8
125°	346.7	427.4	641.2	1082.9	1291.9
127.5°	365.7	446.4	641.2	1030.6	1206.4
130°	384.7	455.9	636.5	978.4	1135.1
132.5°	403.8	460.7	636.5	940.4	1073.4
135°	417.9	470.2	636.5	902.4	1021.1
137.5°	436.9	479.7	636.5	869.2	978.4
140°	451.2	494.0	636.5	835.9	930.9
142.5°	470.2	508.2	636.5	802.6	888.1
145°	489.2	522.5	631.7	778.9	845.4
147.5°	508.2	536.6	627.0	755.2	807.4
150°	522.5	550.9	627.0	731.4	774.1
152.5°	541.4	565.2	622.2	707.7	745.7
155°	555.7	574.7	622.2	693.4	717.2
157.5°	569.9	588.9	622.2	679.2	698.2
160°	584.2	598.4	627.0	669.6	683.9
162.5°	598.4	608.0	627.0	660.1	669.6
165°	608.0	612.7	627.0	655.4	660.1
167.5°	617.5	622.2	627.0	650.6	650.6
170°	622.2	627.0	631.7	646.0	646.0
172.5°	631.7	631.7	631.7	641.2	641.2
175°	636.5	636.5	631.7	641.2	636.5
177.5°	636.5	636.5	631.7	641.2	636.5
180°	636.5	636.5	636.5	636.5	636.5



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	175.8	232.7	840.7	1671.8	1690.9
110°	199.4	256.5	774.1	1657.6	1795.3



(END OF REPORT)