

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: P845213

Luminaire Tested: **SQ4P-PR1-125U-125D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845213
REPORT IS A COMBINATION OF REPORTS P700122 AND P700247
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PR1-125U-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

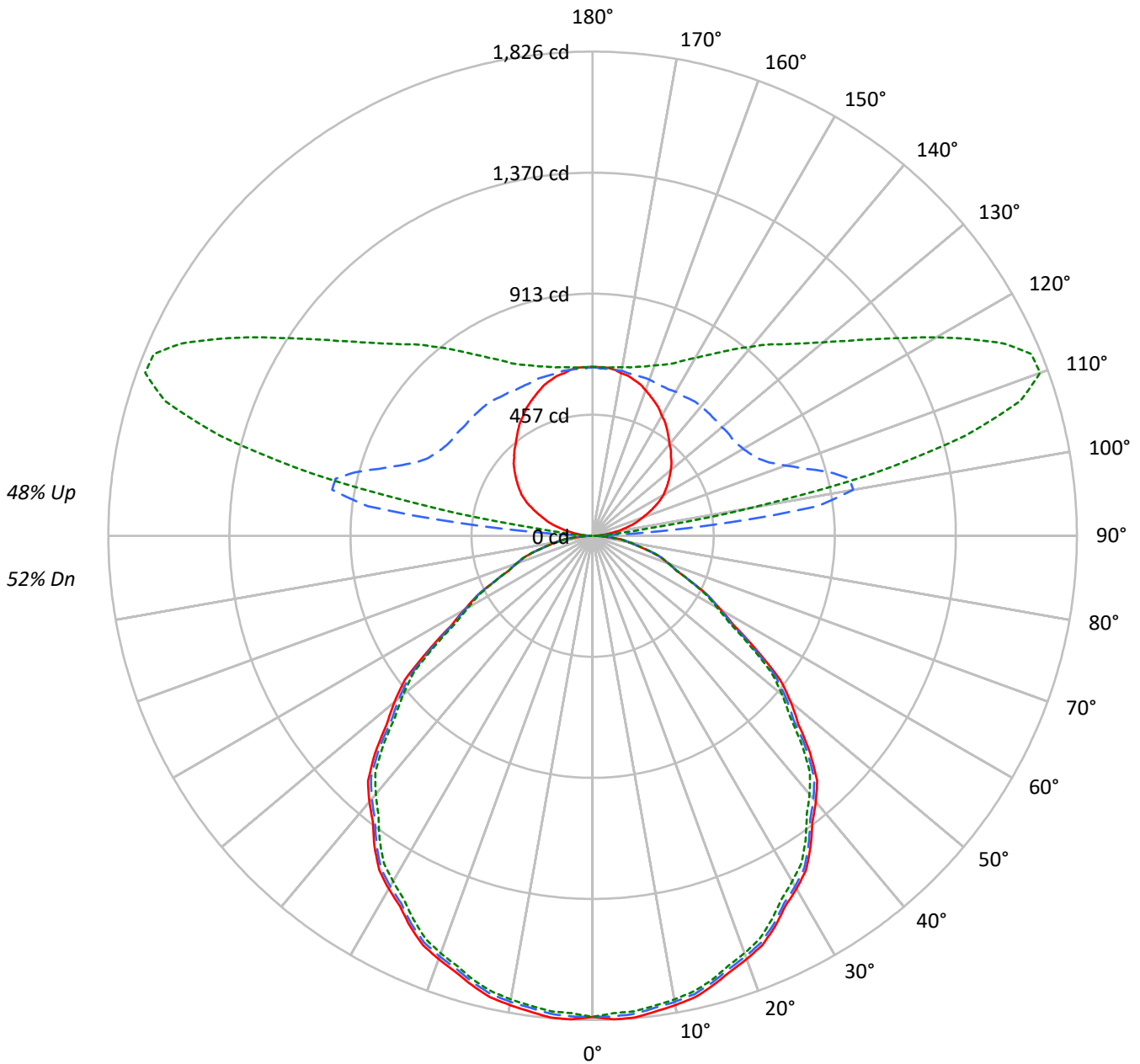
Lumens per Lamp: N/A
Luminaire Lumens: 8667.6 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16739	16739	16739
5°	16891	16760	16673
10°	16835	16719	16631
15°	16764	16658	16567
20°	16678	16569	16449
25°	16561	16451	16258
30°	16381	16267	16034
35°	16141	15999	15771
40°	15770	15602	15320
45°	15132	14864	14559
50°	13996	13662	13390
55°	12215	11942	11691
60°	10295	10210	10005
65°	8905	8938	8868
70°	8176	8217	8217
75°	7857	7857	7910
80°	7385	7470	7385
85°	5960	6616	6616



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	2.0
10°-20°	490.9	5.7
20°-30°	740.4	8.5
30°-40°	882.2	10.2
40°-50°	869.8	10.0
50°-60°	664.7	7.7
60°-70°	411.3	4.7
70°-80°	233.6	2.7
80°-90°	72.6	0.8
90°-100°	253.3	2.9
100°-110°	881.3	10.2
110°-120°	853.7	9.8
120°-130°	669.7	7.7
130°-140°	530.1	6.1
140°-150°	409.1	4.7
150°-160°	293.2	3.4
160°-170°	179.4	2.1
170°-180°	60.7	0.7
0°-30°	1402.9	16.2
0°-40°	2285.1	26.4
0°-60°	3819.6	44.1
0°-90°	4537.1	52.3
90°-120°	1988.3	22.9
90°-150°	3597.1	41.5
90°-180°	4130.0	47.6
0°-180°	8667.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1814	1814	1814	1814	1814	
5°	1824	1804	1810	1803	1800	173
15°	1755	1737	1744	1738	1734	495
25°	1627	1607	1616	1599	1597	749
35°	1433	1416	1420	1402	1400	894
45°	1160	1144	1139	1119	1116	888
55°	759	747	742	730	727	680
65°	408	405	409	406	406	413
75°	220	220	220	222	222	233
85°	56	59	62	62	62	65
90°	10	14	14	10	5	8
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	



TEST NUMBER: P845213

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1814.3	1814.3	1814.3	1814.3	1814.3
2.5°	1825.6	1809.7	1814.3	1810.5	1801.9
5°	1823.8	1803.8	1809.7	1803.2	1800.3
7.5°	1809.7	1790.1	1796.0	1789.5	1787.8
10°	1797.0	1778.7	1784.6	1778.4	1775.2
12.5°	1783.3	1763.9	1770.9	1763.4	1760.4
15°	1755.1	1736.7	1744.0	1737.7	1734.5
17.5°	1723.7	1704.1	1711.6	1704.4	1700.4
20°	1698.7	1680.4	1687.6	1676.9	1675.3
22.5°	1671.3	1652.9	1660.2	1645.7	1645.4
25°	1626.8	1606.9	1616.0	1598.8	1597.1
27.5°	1574.0	1555.7	1563.0	1545.4	1543.8
30°	1537.6	1519.3	1526.9	1508.0	1505.0
32.5°	1496.4	1479.5	1485.7	1466.8	1464.9
35°	1433.1	1416.2	1420.5	1401.9	1400.2
37.5°	1360.9	1345.5	1348.0	1327.2	1325.9
40°	1309.4	1294.3	1295.4	1273.6	1272.0
42.5°	1253.4	1238.1	1236.7	1214.9	1213.3
45°	1159.7	1144.3	1139.2	1118.7	1115.8
47.5°	1052.7	1037.4	1028.0	1011.3	1009.1
50°	975.1	959.8	951.8	937.5	932.9
52.5°	891.4	876.0	869.3	856.3	851.7
55°	759.4	747.2	742.4	729.7	726.8
57.5°	634.1	626.1	624.4	612.3	610.9
60°	557.9	553.3	553.3	542.2	542.2
62.5°	493.0	489.5	491.9	484.6	483.5
65°	407.9	404.8	409.4	406.2	406.2
67.5°	340.7	340.7	343.5	342.1	342.1
70°	303.1	303.1	304.6	304.6	304.6
72.5°	269.4	268.3	272.3	272.0	271.0
75°	220.4	220.4	220.4	221.9	221.9
77.5°	171.6	171.8	173.2	172.9	171.6
80°	139.0	140.6	140.6	139.0	139.0
82.5°	106.7	108.0	108.0	107.7	106.7
85°	56.3	59.3	62.5	62.5	62.5
87.5°	16.1	21.0	25.1	25.1	23.7
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)