

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: P845129

Luminaire Tested: **SQ4P-PP3-125U-125D-B35-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845129
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-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

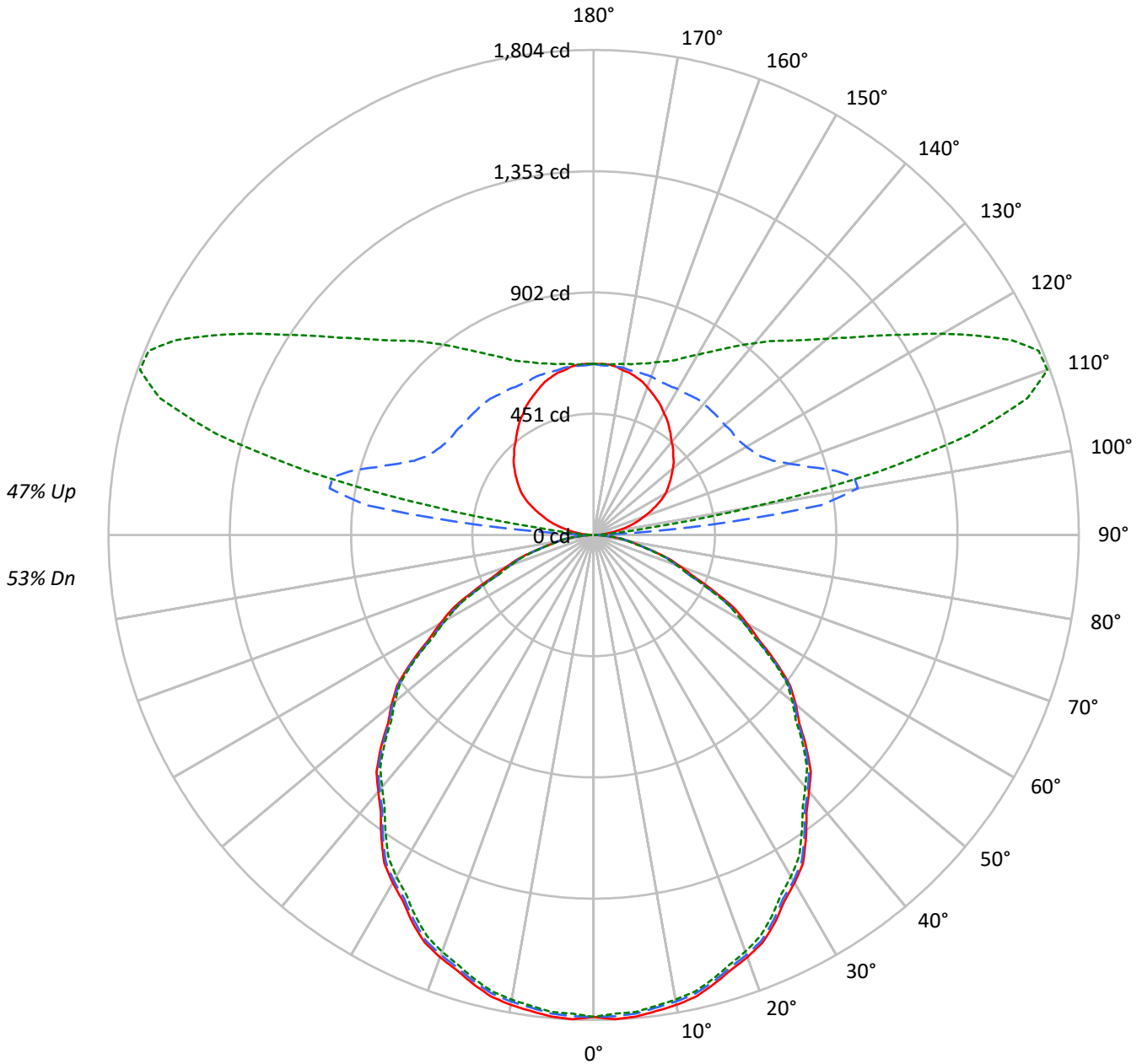
Lumens per Lamp: N/A
Luminaire Lumens: 8719.5 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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									
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	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°	16537	16537	16537
5°	16659	16555	16498
10°	16630	16514	16441
15°	16521	16430	16339
20°	16410	16317	16195
25°	16215	16105	15945
30°	15916	15832	15631
35°	15500	15393	15197
40°	15002	14908	14738
45°	14595	14494	14347
50°	14069	13980	13844
55°	13340	13166	13066
60°	12145	11800	11741
65°	10704	10252	10217
70°	9234	8856	8856
75°	7956	7839	7725
80°	7008	7098	6918
85°	5483	5992	5992



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.5	1.9
10°-20°	483.9	5.6
20°-30°	724.9	8.3
30°-40°	850.2	9.8
40°-50°	852.9	9.8
50°-60°	727.6	8.3
60°-70°	474.5	5.4
70°-80°	238.1	2.7
80°-90°	67.4	0.8
90°-100°	253.3	2.9
100°-110°	881.3	10.1
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°	1378.3	15.8
0°-40°	2228.6	25.6
0°-60°	3809.1	43.7
0°-90°	4589.1	52.6
90°-120°	1988.3	22.8
90°-150°	3597.1	41.3
90°-180°	4130.0	47.4
0°-180°	8719.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1792	1792	1792	1792	1792	
5°	1799	1782	1788	1781	1781	171
15°	1730	1713	1720	1714	1711	488
25°	1593	1574	1582	1568	1566	732
35°	1376	1362	1367	1351	1349	860
45°	1119	1111	1111	1100	1100	861
55°	829	826	818	814	812	737
65°	490	481	470	467	468	489
75°	223	223	220	218	217	242
85°	52	56	57	57	57	61
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1792.4	1792.4	1792.4	1792.4	1792.4
2.5°	1803.6	1788.9	1792.4	1789.8	1782.5
5°	1798.7	1781.9	1787.5	1781.4	1781.4
7.5°	1786.5	1768.1	1773.7	1767.6	1767.3
10°	1775.1	1756.7	1762.7	1756.1	1754.9
12.5°	1758.9	1740.5	1747.5	1739.9	1739.7
15°	1729.6	1712.6	1720.1	1713.7	1710.6
17.5°	1696.5	1678.1	1687.1	1678.4	1677.1
20°	1671.4	1653.0	1661.9	1649.5	1649.5
22.5°	1641.3	1623.0	1633.2	1616.7	1616.7
25°	1592.8	1574.4	1582.0	1567.7	1566.3
27.5°	1535.5	1517.3	1525.1	1508.9	1508.7
30°	1494.0	1476.9	1486.1	1468.8	1467.2
32.5°	1448.8	1433.0	1439.6	1422.2	1420.6
35°	1376.2	1362.4	1366.7	1351.0	1349.3
37.5°	1299.8	1285.7	1290.6	1277.0	1276.5
40°	1245.6	1236.4	1237.8	1226.6	1223.7
42.5°	1195.5	1184.9	1186.3	1175.2	1174.7
45°	1118.6	1110.8	1110.8	1099.6	1099.6
47.5°	1036.8	1030.8	1029.3	1020.1	1019.8
50°	980.2	975.6	974.0	966.1	964.5
52.5°	921.1	919.0	913.6	907.0	906.8
55°	829.3	826.4	818.5	813.6	812.3
57.5°	729.9	723.7	714.7	708.0	709.1
60°	658.2	651.9	639.5	636.3	636.3
62.5°	589.1	581.8	569.0	564.7	567.2
65°	490.3	481.1	469.6	466.7	468.0
67.5°	400.3	391.9	379.7	379.7	378.6
70°	342.3	337.7	328.3	328.3	328.3
72.5°	290.9	288.7	281.9	281.7	280.6
75°	223.2	223.2	219.9	218.3	216.7
77.5°	167.1	167.6	166.3	164.7	161.7
80°	131.9	135.1	133.6	131.9	130.2
82.5°	99.4	102.4	102.1	99.4	98.8
85°	51.8	56.4	56.6	56.6	56.6
87.5°	13.8	18.7	20.1	20.1	21.4
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)