

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: P845117

Luminaire Tested: **SQ4P-PP3-100U-125D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845117
REPORT IS A COMBINATION OF REPORTS P700090 AND P700246
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-100U-125D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1000 LUMENS PER FOOT
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

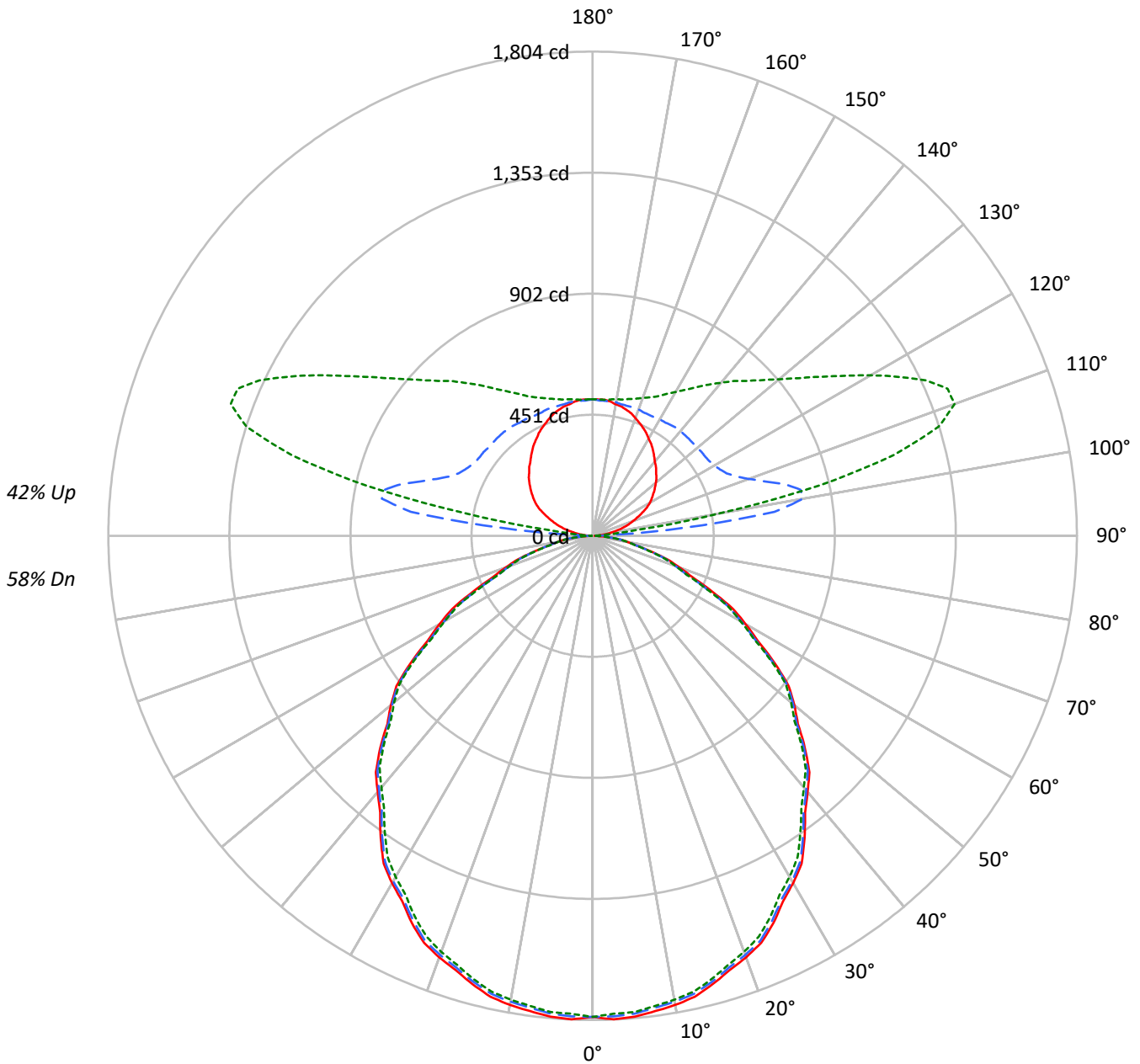
Lumens per Lamp: N/A
Luminaire Lumens: 7889.5 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 71.8
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64	58																			
1	100	96	92	88	93	89	86	83	77	75	73	67	65	63	57	55	54	50																			
2	91	84	78	72	85	78	73	68	68	64	61	59	56	53	50	48	46	42																			
3	83	74	66	61	77	69	63	57	60	55	51	52	48	45	45	42	39	36																			
4	76	65	57	51	71	61	54	49	54	48	44	47	42	39	40	37	34	31																			
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	36	32	30	27																			
6	65	52	44	38	60	49	42	37	43	37	33	38	33	30	33	29	26	23																			
7	60	47	39	34	56	45	37	32	39	33	29	34	30	26	30	26	23	21																			
8	55	43	35	30	52	41	33	29	36	30	26	32	27	23	27	24	21	19																			
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	22	19	17																			
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	23	20	17	15																			

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	2.1
10°-20°	483.9	6.1
20°-30°	724.9	9.2
30°-40°	850.2	10.8
40°-50°	852.9	10.8
50°-60°	727.6	9.2
60°-70°	474.5	6.0
70°-80°	238.1	3.0
80°-90°	67.1	0.9
90°-100°	202.4	2.6
100°-110°	704.3	8.9
110°-120°	682.2	8.6
120°-130°	535.2	6.8
130°-140°	423.6	5.4
140°-150°	326.9	4.1
150°-160°	234.3	3.0
160°-170°	143.3	1.8
170°-180°	48.5	0.6
0°-30°	1378.3	17.5
0°-40°	2228.6	28.2
0°-60°	3809.1	48.3
0°-90°	4588.8	58.2
90°-120°	1588.9	20.1
90°-150°	2874.6	36.4
90°-180°	3301.0	41.8
0°-180°	7889.5	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°	8	11	11	8	4	7
95°	34	118	342	87	53	36
105°	118	167	740	1249	1162	124
115°	205	247	550	1162	1370	202
125°	277	342	512	865	1032	248
135°	334	376	509	721	816	259
145°	391	418	505	622	676	245
155°	444	459	497	554	573	205
165°	486	490	501	524	528	137
175°	509	509	505	512	509	48
180°	509	509	509	509	509	



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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°	7.6	11.4	11.4	7.6	3.8
92.5°	19.0	57.0	53.1	22.8	19.0
95°	34.2	117.6	341.6	87.3	53.1
97.5°	53.1	132.9	683.2	311.3	167.0
100°	72.1	140.4	797.0	747.7	482.0
102.5°	94.9	151.8	793.2	1051.4	865.3
105°	117.6	167.0	740.1	1248.7	1161.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	182.2	223.9	577.0	1256.3	1431.0
115°	204.9	246.7	550.3	1161.5	1370.2
117.5°	227.7	273.3	535.2	1074.2	1282.9
120°	246.7	296.0	523.8	990.6	1195.6
122.5°	261.9	318.8	516.2	922.3	1108.3
125°	277.0	341.6	512.4	865.3	1032.4
127.5°	292.3	356.8	512.4	823.7	964.1
130°	307.5	364.4	508.6	781.9	907.1
132.5°	322.6	368.1	508.6	751.5	857.8
135°	334.0	375.8	508.6	721.2	816.0
137.5°	349.2	383.3	508.6	694.6	781.9
140°	360.6	394.8	508.6	668.0	743.9
142.5°	375.8	406.1	508.6	641.5	709.8
145°	390.9	417.6	504.8	622.5	675.6
147.5°	406.1	428.9	501.0	603.5	645.3
150°	417.6	440.3	501.0	584.5	618.6
152.5°	432.7	451.7	497.2	565.5	595.9
155°	444.1	459.2	497.2	554.2	573.1
157.5°	455.4	470.7	497.2	542.8	558.0
160°	466.9	478.2	501.0	535.2	546.5
162.5°	478.2	485.9	501.0	527.5	535.2
165°	485.9	489.7	501.0	523.8	527.5
167.5°	493.4	497.2	501.0	520.0	520.0
170°	497.2	501.0	504.8	516.2	516.2
172.5°	504.8	504.8	504.8	512.4	512.4
175°	508.6	508.6	504.8	512.4	508.6
177.5°	508.6	508.6	504.8	512.4	508.6
180°	508.6	508.6	508.6	508.6	508.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	140.4	186.0	671.8	1336.0	1351.2
110°	159.4	204.9	618.6	1324.7	1434.7



(END OF REPORT)