

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: FAIL-SAFE

Report Number: P708881

Luminaire Tested: **22APR-22-52L935-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708881
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-22-52L935-UNV
Description: ArcMed Patient Recessed 2x2 Fixture Ambient and Exam Light
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

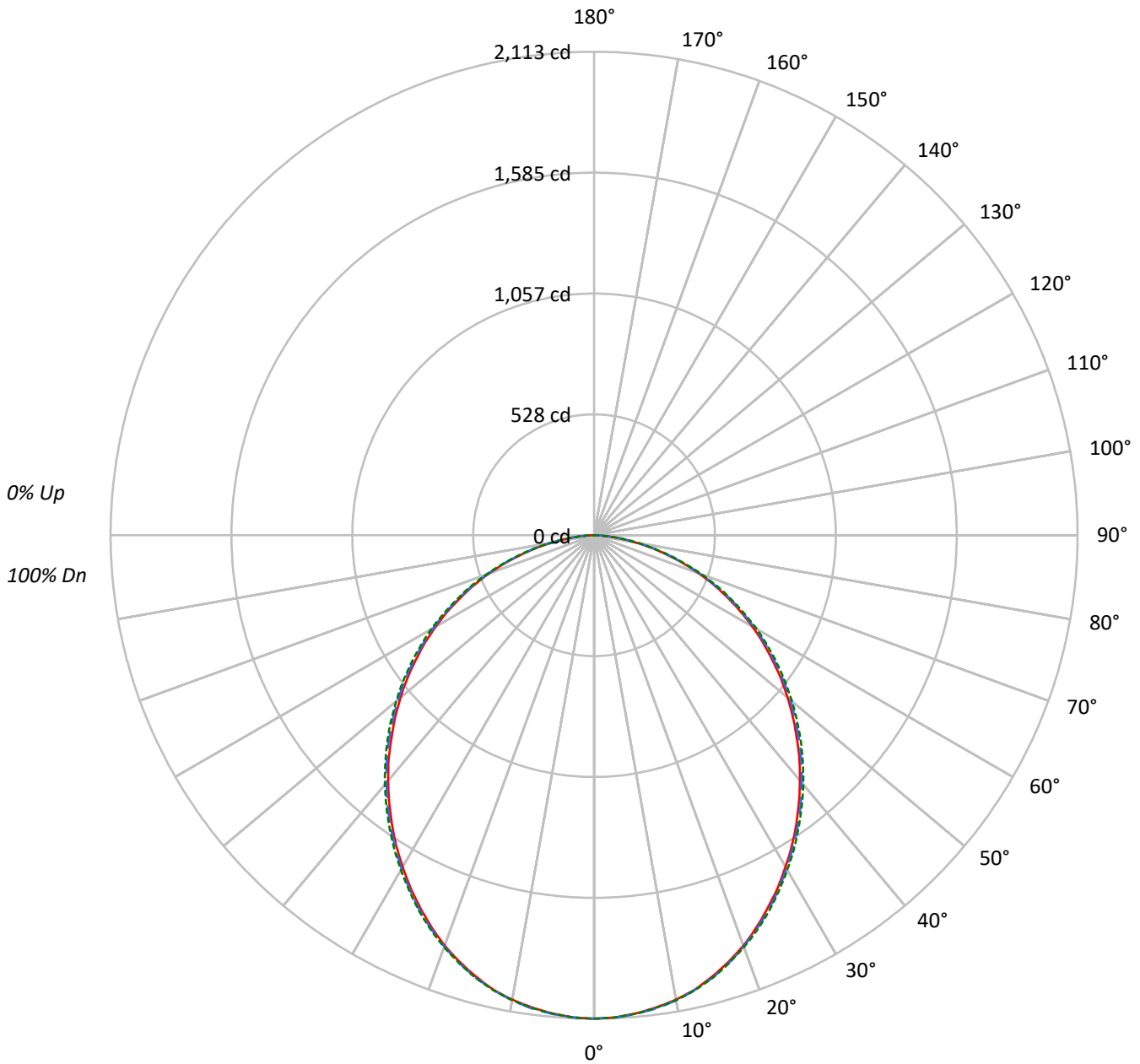
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5495.2 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.31
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): 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



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	86	86	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	73	73	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	62	62	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	53	53	53	51
5	76	64	55	48	74	63	54	48	61	53	47	59	52	47	57	51	46	46	46	46	44
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	41	41	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	36	36	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	33	33	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	30	30	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5685	5685	5685
5°	5667	5674	5669
10°	5631	5640	5638
15°	5562	5577	5580
20°	5467	5478	5486
25°	5335	5360	5377
30°	5199	5228	5247
35°	5060	5094	5121
40°	4918	4956	4996
45°	4765	4823	4865
50°	4623	4678	4726
55°	4464	4524	4579
60°	4301	4358	4420
65°	4089	4155	4203
70°	3826	3878	3933
75°	3440	3505	3551
80°	2906	2980	3008
85°	2174	2269	2257



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.3	3.6
10°-20°	563.8	10.3
20°-30°	831.0	15.1
30°-40°	969.9	17.6
40°-50°	977.4	17.8
50°-60°	862.6	15.7
60°-70°	645.2	11.7
70°-80°	357.5	6.5
80°-90°	88.4	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1594.1	29.0
0°-40°	2564.0	46.7
0°-60°	4404.1	80.1
0°-90°	5495.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5495.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2113	2113	2113	2113	2113	
5°	2098	2100	2100	2101	2099	199
15°	1997	2000	2002	2004	2003	563
25°	1797	1801	1805	1809	1811	828
35°	1540	1544	1551	1557	1559	963
45°	1252	1260	1267	1276	1278	967
55°	951	957	964	973	976	852
65°	642	645	653	658	660	636
75°	331	333	337	341	342	351
85°	70	73	74	73	73	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2112.8	2112.8	2112.8	2112.8	2112.8
2.5°	2108.9	2111.1	2109.3	2111.1	2109.3
5°	2097.9	2100.5	2100.5	2100.9	2098.7
7.5°	2081.6	2084.7	2086.0	2086.4	2083.3
10°	2060.9	2064.0	2064.0	2065.7	2063.5
12.5°	2034.5	2036.2	2035.8	2038.4	2036.7
15°	1996.6	2000.2	2001.9	2003.7	2002.8
17.5°	1954.4	1958.8	1960.1	1963.2	1961.0
20°	1909.1	1912.1	1913.0	1917.9	1915.7
22.5°	1854.9	1858.0	1861.1	1865.5	1865.9
25°	1796.8	1800.8	1805.2	1808.7	1810.9
27.5°	1737.0	1741.0	1744.9	1749.3	1750.2
30°	1673.2	1678.0	1682.4	1687.7	1688.6
32.5°	1608.9	1610.7	1617.3	1623.0	1625.7
35°	1540.3	1543.8	1550.8	1557.0	1558.8
37.5°	1470.3	1475.6	1483.1	1489.7	1491.4
40°	1399.9	1404.3	1410.9	1419.7	1422.3
42.5°	1328.6	1331.7	1340.5	1348.0	1350.2
45°	1252.0	1259.9	1267.4	1276.2	1278.4
47.5°	1179.0	1185.1	1192.6	1201.0	1204.5
50°	1104.2	1111.6	1117.4	1126.6	1128.8
52.5°	1029.3	1034.2	1042.1	1050.0	1053.5
55°	951.4	957.2	964.2	973.0	976.1
57.5°	876.6	879.7	887.6	895.1	897.8
60°	799.2	802.3	809.7	817.7	821.2
62.5°	721.7	724.4	730.5	739.8	739.8
65°	642.1	645.2	652.6	657.9	660.1
67.5°	564.6	567.3	572.5	579.1	582.2
70°	486.3	488.5	492.9	499.5	499.9
72.5°	408.0	410.2	415.9	418.1	421.2
75°	330.9	332.7	337.1	340.6	341.5
77.5°	257.4	260.1	263.2	264.5	265.8
80°	187.5	190.1	192.3	193.6	194.1
82.5°	124.1	126.7	128.1	128.9	128.5
85°	70.4	72.6	73.5	72.6	73.1
87.5°	27.7	29.0	29.9	29.5	28.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)