

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: P709001

Luminaire Tested: **24APR-67L950-X-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P709001
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-67L950-X-UNV
Description: ArcMed Patient Recessed 2x4 Fixture Ambient Light
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

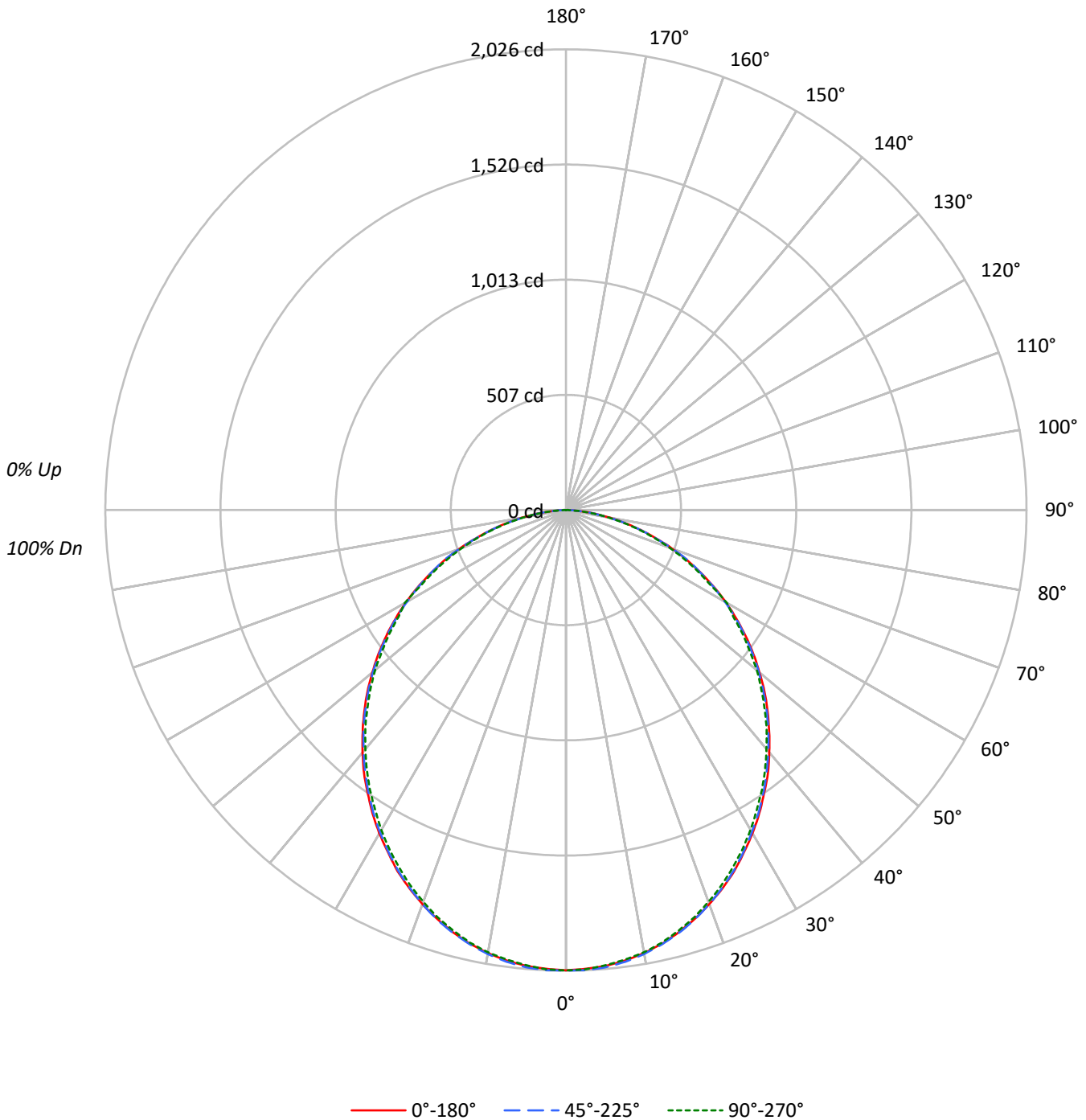
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5392.2 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 60.3
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





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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	80	76	82	78	74	79	76	72	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	61	61	61	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	53	53	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	46	46	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	41	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	36	36	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	32	32	32	30
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2724	2724	2724
5°	2718	2726	2714
10°	2702	2708	2699
15°	2677	2681	2667
20°	2641	2640	2626
25°	2601	2596	2575
30°	2551	2542	2522
35°	2497	2488	2468
40°	2444	2431	2410
45°	2388	2376	2351
50°	2327	2317	2294
55°	2263	2251	2222
60°	2187	2173	2203
65°	2087	2081	2042
70°	1959	1961	1908
75°	1778	1765	1724
80°	1528	1508	1468
85°	1169	1158	1068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.2	3.5
10°-20°	541.7	10.0
20°-30°	804.0	14.9
30°-40°	946.4	17.6
40°-50°	961.8	17.8
50°-60°	855.0	15.9
60°-70°	644.9	12.0
70°-80°	358.2	6.6
80°-90°	89.1	1.7
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°	1536.9	28.5
0°-40°	2483.3	46.1
0°-60°	4300.0	79.7
0°-90°	5392.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5392.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2024	2024	2024	2024	2024	
5°	2012	2015	2018	2015	2010	191
15°	1922	1924	1925	1920	1914	542
25°	1752	1751	1748	1741	1735	806
35°	1520	1521	1515	1506	1503	952
45°	1255	1255	1249	1238	1236	968
55°	965	958	960	949	947	862
65°	656	652	654	645	641	649
75°	342	338	340	337	332	363
85°	76	74	75	72	69	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2024.5	2024.5	2024.5	2024.5	2024.5
2.5°	2019.3	2023.2	2025.8	2022.5	2021.9
5°	2012.2	2015.4	2018.0	2014.8	2009.6
7.5°	1998.0	2001.8	2003.8	2000.5	1993.4
10°	1977.9	1981.8	1982.4	1979.2	1975.3
12.5°	1953.3	1955.9	1955.9	1953.3	1948.8
15°	1921.7	1923.6	1924.9	1920.4	1914.5
17.5°	1885.5	1888.7	1887.4	1880.3	1877.7
20°	1844.7	1847.3	1844.1	1839.5	1833.7
22.5°	1800.1	1800.7	1798.2	1793.0	1787.2
25°	1752.3	1751.0	1748.4	1740.6	1734.8
27.5°	1696.6	1699.2	1692.8	1685.7	1681.8
30°	1641.7	1642.3	1635.9	1626.8	1623.6
32.5°	1582.8	1581.6	1577.0	1567.3	1562.2
35°	1520.1	1520.8	1515.0	1505.9	1502.7
37.5°	1459.4	1455.5	1450.9	1440.6	1438.7
40°	1391.5	1390.8	1384.3	1375.3	1372.1
42.5°	1323.6	1322.9	1317.7	1308.7	1306.1
45°	1255.0	1255.0	1248.6	1238.2	1235.6
47.5°	1185.2	1182.6	1178.1	1169.0	1165.8
50°	1111.5	1109.5	1107.0	1096.6	1096.0
52.5°	1039.1	1037.8	1033.2	1024.2	1019.0
55°	964.7	957.6	959.5	949.2	947.3
57.5°	888.4	881.3	885.2	876.1	872.2
60°	812.8	805.6	807.6	801.8	818.6
62.5°	735.2	730.6	730.6	744.2	719.7
65°	655.6	651.8	653.7	645.3	641.4
67.5°	577.4	571.6	583.9	568.4	561.9
70°	497.9	494.0	498.5	489.5	484.9
72.5°	419.0	415.8	414.5	411.2	407.4
75°	342.0	337.5	339.5	336.9	331.7
77.5°	267.0	265.7	265.1	261.9	258.0
80°	197.2	195.9	194.6	192.0	189.5
82.5°	131.9	130.6	130.0	128.7	128.0
85°	75.7	73.7	75.0	71.8	69.2
87.5°	28.4	27.8	29.1	26.5	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)