

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: P709000

Luminaire Tested: **24APR-76L950-X-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P709000
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-76L950-X-UNV
Description: ArcMed Patient Recessed 2x4 Fixture Ambient Light
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

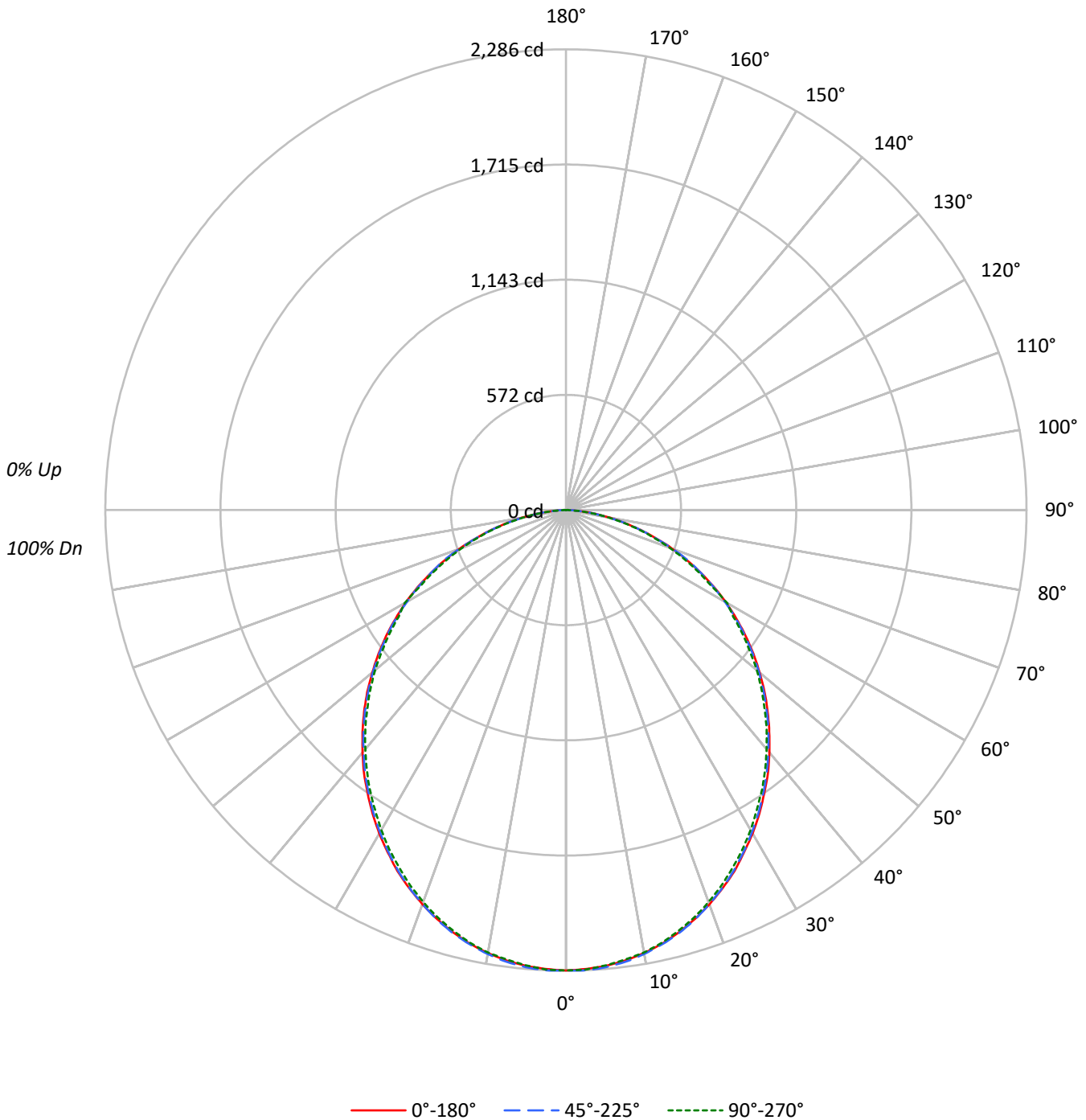
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6085.9 lumens
Efficiency: N/A
Efficacy: 87.7 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): 69.4
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				
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°	3074	3074	3074
5°	3067	3076	3063
10°	3050	3057	3046
15°	3021	3026	3010
20°	2981	2980	2963
25°	2936	2930	2907
30°	2879	2868	2847
35°	2818	2809	2786
40°	2758	2744	2720
45°	2695	2681	2654
50°	2626	2615	2589
55°	2554	2540	2508
60°	2468	2453	2486
65°	2356	2349	2305
70°	2210	2214	2153
75°	2007	1992	1946
80°	1725	1702	1657
85°	1318	1308	1206



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.8	3.5
10°-20°	611.4	10.0
20°-30°	907.4	14.9
30°-40°	1068.1	17.6
40°-50°	1085.5	17.8
50°-60°	965.0	15.9
60°-70°	727.9	12.0
70°-80°	404.3	6.6
80°-90°	100.5	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°	1734.6	28.5
0°-40°	2802.7	46.1
0°-60°	4853.2	79.7
0°-90°	6085.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6085.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2285	2285	2285	2285	2285	
5°	2271	2275	2278	2274	2268	216
15°	2169	2171	2172	2167	2161	611
25°	1978	1976	1973	1965	1958	910
35°	1716	1716	1710	1700	1696	1074
45°	1416	1416	1409	1398	1395	1093
55°	1089	1081	1083	1071	1069	973
65°	740	736	738	728	724	733
75°	386	381	383	380	374	409
85°	85	83	85	81	78	103
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2284.9	2284.9	2284.9	2284.9	2284.9
2.5°	2279.1	2283.5	2286.4	2282.7	2282.0
5°	2271.1	2274.7	2277.6	2274.0	2268.1
7.5°	2255.0	2259.4	2261.6	2257.9	2249.9
10°	2232.4	2236.8	2237.5	2233.8	2229.5
12.5°	2204.6	2207.6	2207.6	2204.6	2199.5
15°	2168.9	2171.1	2172.5	2167.4	2160.9
17.5°	2128.0	2131.7	2130.2	2122.2	2119.3
20°	2082.0	2085.0	2081.3	2076.2	2069.6
22.5°	2031.7	2032.4	2029.5	2023.7	2017.1
25°	1977.7	1976.2	1973.3	1964.6	1958.0
27.5°	1914.9	1917.8	1910.6	1902.5	1898.1
30°	1852.9	1853.6	1846.3	1836.1	1832.5
32.5°	1786.5	1785.0	1779.9	1769.0	1763.1
35°	1715.7	1716.4	1709.9	1699.6	1696.0
37.5°	1647.1	1642.7	1637.6	1625.9	1623.7
40°	1570.5	1569.7	1562.4	1552.2	1548.6
42.5°	1493.8	1493.1	1487.3	1477.1	1474.1
45°	1416.5	1416.5	1409.2	1397.5	1394.6
47.5°	1337.7	1334.8	1329.6	1319.4	1315.8
50°	1254.5	1252.3	1249.4	1237.7	1237.0
52.5°	1172.7	1171.3	1166.2	1156.0	1150.1
55°	1088.8	1080.8	1083.0	1071.3	1069.1
57.5°	1002.7	994.7	999.1	988.8	984.5
60°	917.3	909.3	911.5	904.9	923.9
62.5°	829.8	824.6	824.6	840.0	812.2
65°	740.0	735.6	737.8	728.3	723.9
67.5°	651.7	645.1	659.0	641.5	634.2
70°	561.9	557.5	562.7	552.4	547.3
72.5°	472.9	469.2	467.8	464.1	459.8
75°	386.1	380.9	383.1	380.2	374.4
77.5°	301.4	299.9	299.2	295.6	291.2
80°	222.6	221.1	219.7	216.7	213.8
82.5°	148.9	147.4	146.7	145.2	144.5
85°	85.4	83.2	84.7	81.0	78.1
87.5°	32.1	31.4	32.8	29.9	27.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)