

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: P708995

Luminaire Tested: **24APR-76L940-X-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708995
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-76L940-X-UNV
Description: ArcMed Patient Recessed 2x4 Fixture Ambient Light
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

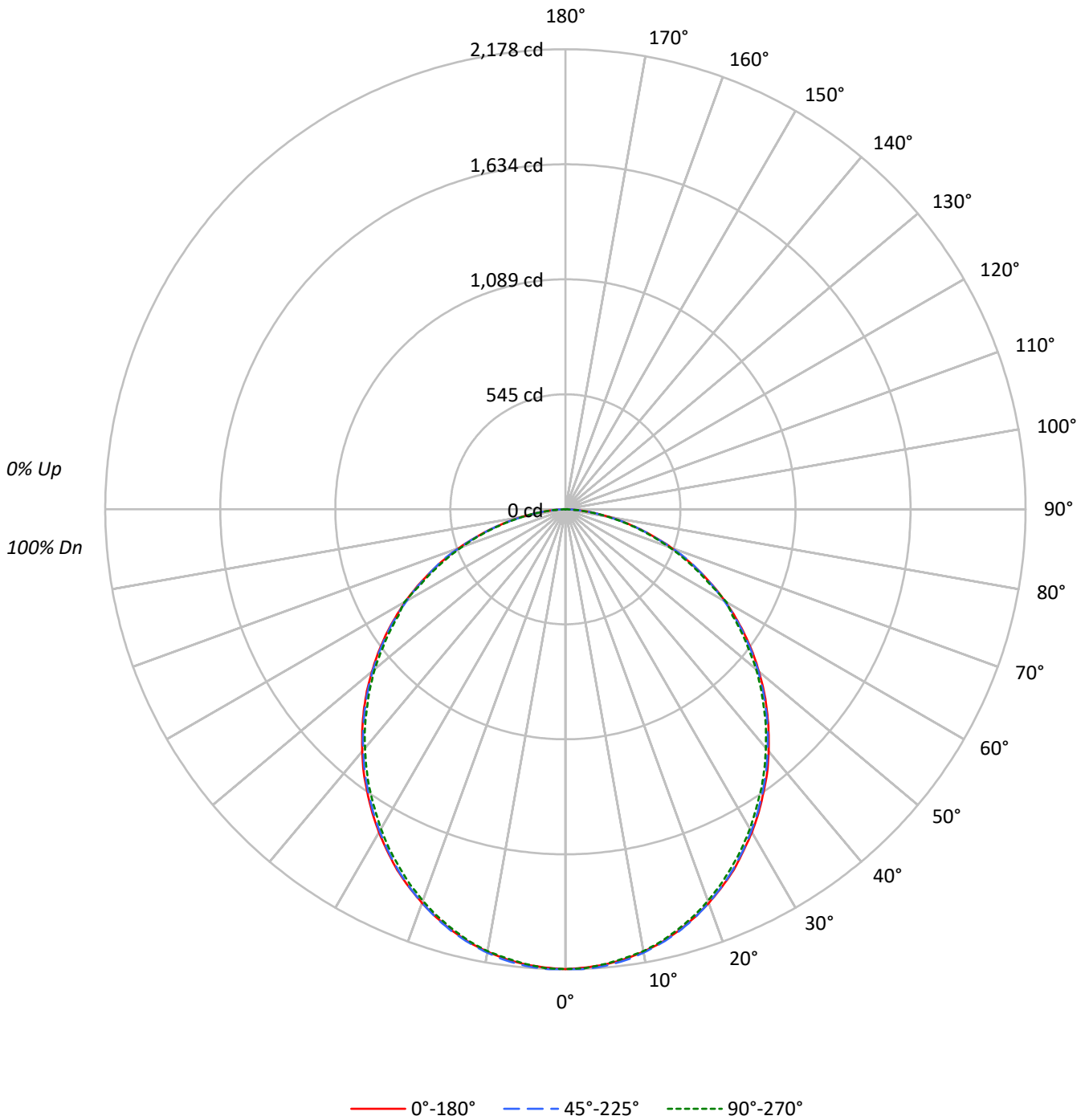
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5798.5 lumens
Efficiency: N/A
Efficacy: 83.6 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

TEST NUMBER: P708995
CATALOG NUMBER: 24APR-76L940-X-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P708995
 CATALOG NUMBER: 24APR-76L940-X-UNV

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°	2929	2929	2929
5°	2922	2931	2919
10°	2906	2913	2902
15°	2878	2883	2868
20°	2840	2839	2823
25°	2797	2791	2769
30°	2743	2733	2712
35°	2685	2676	2654
40°	2628	2615	2591
45°	2568	2555	2528
50°	2502	2492	2467
55°	2434	2420	2389
60°	2352	2337	2369
65°	2245	2238	2196
70°	2106	2109	2052
75°	1912	1897	1854
80°	1643	1622	1578
85°	1257	1246	1149



TEST NUMBER: P708995
 CATALOG NUMBER: 24APR-76L940-X-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.6	3.5
10°-20°	582.5	10.0
20°-30°	864.6	14.9
30°-40°	1017.7	17.6
40°-50°	1034.2	17.8
50°-60°	919.4	15.9
60°-70°	693.5	12.0
70°-80°	385.2	6.6
80°-90°	95.8	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°	1652.7	28.5
0°-40°	2670.4	46.1
0°-60°	4624.0	79.7
0°-90°	5798.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5798.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2177	2177	2177	2177	2177	
5°	2164	2167	2170	2167	2161	205
15°	2066	2068	2070	2065	2059	583
25°	1884	1883	1880	1872	1866	867
35°	1635	1635	1629	1619	1616	1023
45°	1350	1350	1343	1332	1329	1041
55°	1037	1030	1032	1021	1019	927
65°	705	701	703	694	690	698
75°	368	363	365	362	357	390
85°	81	79	81	77	74	98
90°	0	0	0	0	0	



TEST NUMBER: P708995

CATALOG NUMBER: 24APR-76L940-X-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2177.0	2177.0	2177.0	2177.0	2177.0
2.5°	2171.4	2175.6	2178.4	2174.9	2174.2
5°	2163.8	2167.3	2170.0	2166.6	2161.0
7.5°	2148.5	2152.7	2154.7	2151.3	2143.6
10°	2126.9	2131.1	2131.8	2128.3	2124.1
12.5°	2100.5	2103.3	2103.3	2100.5	2095.6
15°	2066.4	2068.5	2069.9	2065.0	2058.8
17.5°	2027.5	2031.0	2029.6	2021.9	2019.2
20°	1983.7	1986.5	1983.0	1978.1	1971.9
22.5°	1935.7	1936.4	1933.6	1928.1	1921.8
25°	1884.3	1882.9	1880.1	1871.8	1865.5
27.5°	1824.5	1827.3	1820.3	1812.7	1808.5
30°	1765.4	1766.1	1759.1	1749.4	1745.9
32.5°	1702.1	1700.7	1695.8	1685.4	1679.8
35°	1634.7	1635.3	1629.1	1619.4	1615.9
37.5°	1569.3	1565.1	1560.3	1549.1	1547.0
40°	1496.3	1495.6	1488.6	1478.9	1475.4
42.5°	1423.3	1422.6	1417.0	1407.3	1404.5
45°	1349.6	1349.6	1342.6	1331.5	1328.7
47.5°	1274.5	1271.7	1266.8	1257.1	1253.6
50°	1195.2	1193.1	1190.4	1179.2	1178.5
52.5°	1117.3	1116.0	1111.1	1101.4	1095.8
55°	1037.4	1029.7	1031.8	1020.7	1018.6
57.5°	955.3	947.7	951.9	942.1	938.0
60°	874.0	866.3	868.4	862.2	880.3
62.5°	790.6	785.7	785.7	800.3	773.9
65°	705.0	700.9	702.9	693.9	689.7
67.5°	620.9	614.6	627.9	611.2	604.2
70°	535.4	531.2	536.1	526.3	521.5
72.5°	450.6	447.1	445.7	442.2	438.0
75°	367.8	362.9	365.0	362.3	356.7
77.5°	287.2	285.8	285.1	281.6	277.4
80°	212.1	210.7	209.3	206.5	203.7
82.5°	141.8	140.5	139.8	138.4	137.7
85°	81.4	79.3	80.7	77.2	74.4
87.5°	30.6	29.9	31.3	28.5	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)