

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: P708885

Luminaire Tested: **22APR-26-62L940-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708885
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-26-62L940-UNV
Description: ArcMed Patient Recessed 2x2 Fixture Ambient and Exam Light
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

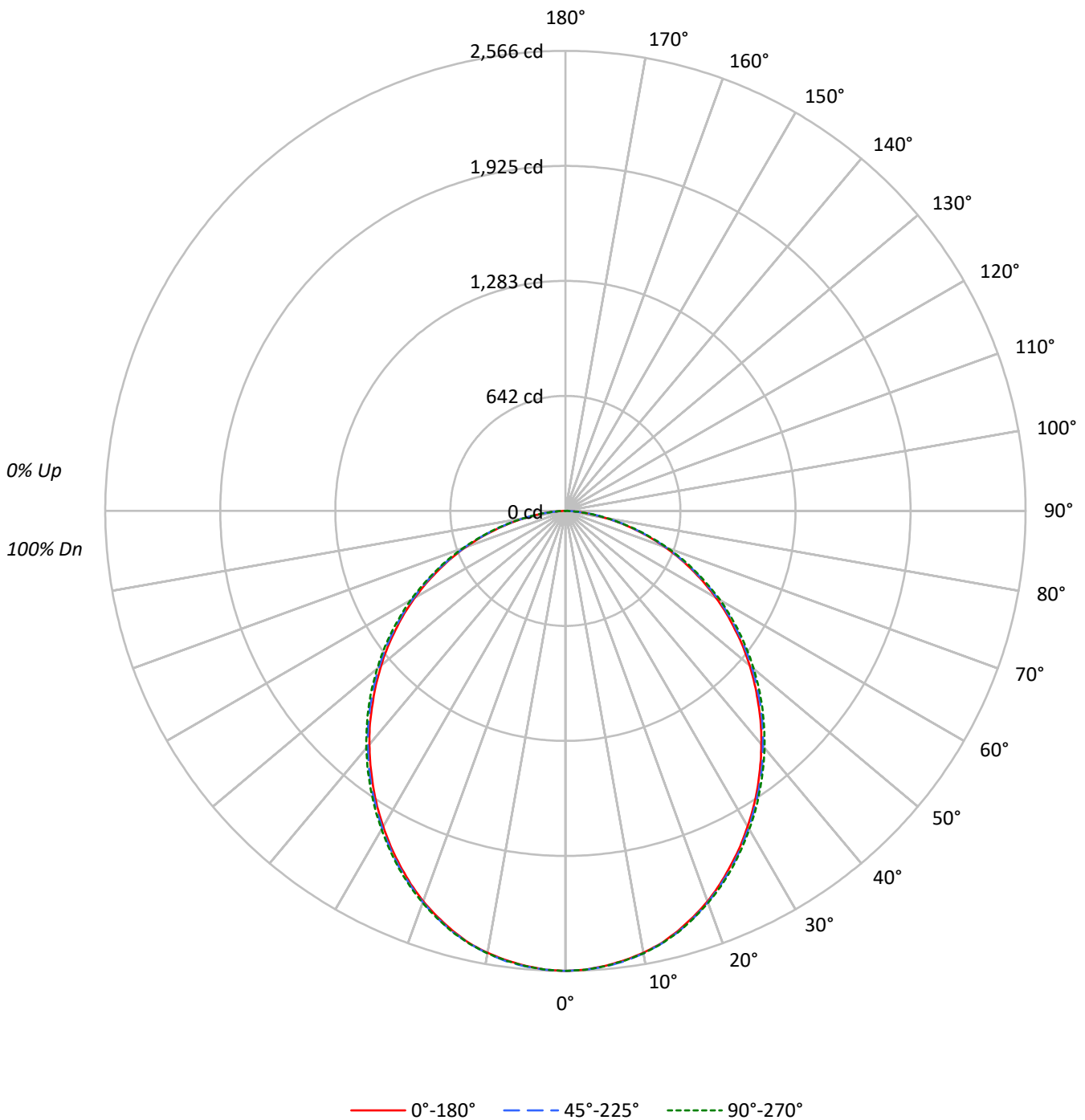
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6673.7 lumens
Efficiency: N/A
Efficacy: 86.7 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): 77
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: P708885
CATALOG NUMBER: 22APR-26-62L940-UNV

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	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°	6905	6905	6905
5°	6882	6891	6885
10°	6839	6849	6848
15°	6756	6773	6776
20°	6639	6653	6662
25°	6479	6510	6530
30°	6314	6349	6372
35°	6145	6187	6219
40°	5972	6019	6068
45°	5786	5858	5909
50°	5614	5681	5739
55°	5421	5494	5561
60°	5224	5293	5367
65°	4965	5047	5105
70°	4647	4710	4777
75°	4179	4257	4312
80°	3529	3620	3653
85°	2640	2757	2739



TEST NUMBER: P708885
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.1	3.6
10°-20°	684.7	10.3
20°-30°	1009.2	15.1
30°-40°	1177.9	17.6
40°-50°	1187.1	17.8
50°-60°	1047.7	15.7
60°-70°	783.5	11.7
70°-80°	434.2	6.5
80°-90°	107.4	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°	1936.0	29.0
0°-40°	3113.9	46.7
0°-60°	5348.6	80.1
0°-90°	6673.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6673.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2566	2566	2566	2566	2566	
5°	2548	2551	2551	2552	2549	242
15°	2425	2429	2431	2433	2432	683
25°	2182	2187	2192	2197	2199	1005
35°	1871	1875	1883	1891	1893	1170
45°	1520	1530	1539	1550	1553	1175
55°	1156	1162	1171	1182	1185	1034
65°	780	784	793	799	802	772
75°	402	404	409	414	415	427
85°	86	88	89	88	89	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2566.0	2566.0	2566.0	2566.0	2566.0
2.5°	2561.1	2563.8	2561.7	2563.8	2561.7
5°	2547.8	2551.0	2551.0	2551.5	2548.8
7.5°	2528.0	2531.7	2533.3	2533.9	2530.1
10°	2502.9	2506.6	2506.6	2508.8	2506.1
12.5°	2470.8	2473.0	2472.4	2475.6	2473.5
15°	2424.9	2429.1	2431.3	2433.4	2432.3
17.5°	2373.5	2378.9	2380.5	2384.2	2381.6
20°	2318.5	2322.2	2323.3	2329.2	2326.5
22.5°	2252.8	2256.5	2260.2	2265.6	2266.1
25°	2182.2	2187.0	2192.4	2196.6	2199.3
27.5°	2109.5	2114.3	2119.1	2124.5	2125.6
30°	2032.0	2037.9	2043.2	2049.7	2050.7
32.5°	1954.0	1956.1	1964.1	1971.1	1974.3
35°	1870.6	1874.9	1883.4	1890.9	1893.1
37.5°	1785.6	1792.0	1801.1	1809.2	1811.3
40°	1700.1	1705.5	1713.5	1724.2	1727.4
42.5°	1613.5	1617.3	1628.0	1637.1	1639.7
45°	1520.5	1530.2	1539.2	1549.9	1552.6
47.5°	1431.8	1439.3	1448.4	1458.5	1462.8
50°	1341.0	1350.0	1357.0	1368.2	1370.9
52.5°	1250.1	1256.0	1265.6	1275.2	1279.5
55°	1155.5	1162.5	1171.0	1181.7	1185.4
57.5°	1064.6	1068.4	1078.0	1087.1	1090.3
60°	970.6	974.3	983.4	993.0	997.3
62.5°	876.5	879.7	887.2	898.4	898.4
65°	779.8	783.5	792.6	799.0	801.7
67.5°	685.7	688.9	695.3	703.4	707.1
70°	590.6	593.3	598.6	606.6	607.1
72.5°	495.4	498.1	505.1	507.7	511.5
75°	401.9	404.1	409.4	413.7	414.7
77.5°	312.7	315.9	319.6	321.2	322.8
80°	227.7	230.9	233.6	235.2	235.7
82.5°	150.7	153.9	155.5	156.6	156.1
85°	85.5	88.2	89.3	88.2	88.7
87.5°	33.7	35.3	36.3	35.8	34.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)