

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: P708984

Luminaire Tested: **24APR-85L930-X-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708984
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-85L930-X-UNV
Description: ArcMed Patient Recessed 2x4 Fixture Ambient Light
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

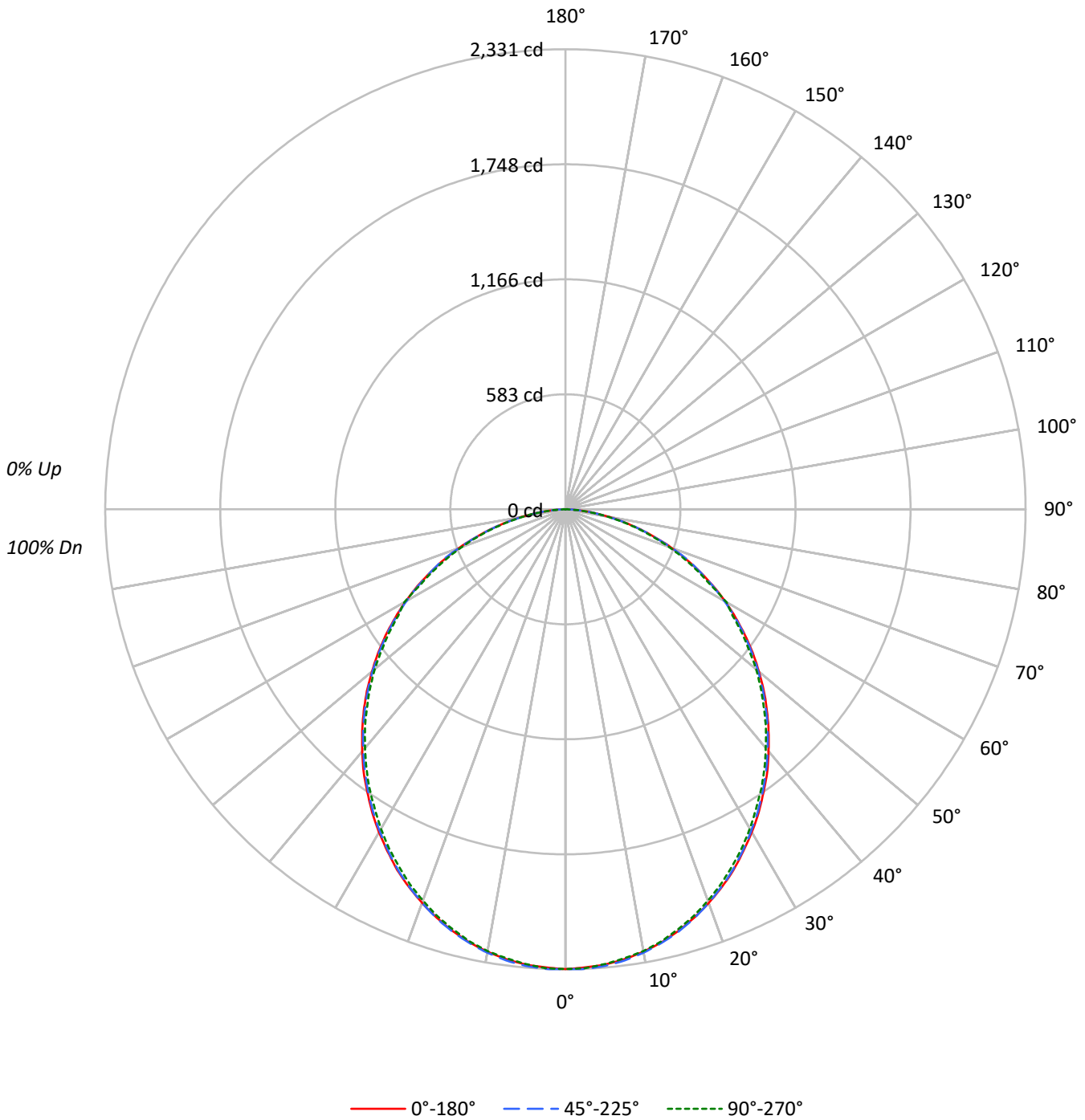
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6205.2 lumens
Efficiency: N/A
Efficacy: 79.2 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): 78.3
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

TEST NUMBER: P708984
CATALOG NUMBER: 24APR-85L930-X-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	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°	3135	3135	3135
5°	3128	3137	3123
10°	3110	3117	3106
15°	3080	3086	3069
20°	3040	3039	3021
25°	2994	2987	2964
30°	2935	2925	2903
35°	2873	2864	2840
40°	2812	2798	2773
45°	2748	2734	2706
50°	2677	2667	2640
55°	2604	2590	2557
60°	2517	2501	2535
65°	2402	2395	2350
70°	2254	2257	2196
75°	2046	2031	1984
80°	1758	1736	1689
85°	1345	1332	1229



TEST NUMBER: P708984
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.0	3.5
10°-20°	623.3	10.0
20°-30°	925.2	14.9
30°-40°	1089.1	17.6
40°-50°	1106.8	17.8
50°-60°	983.9	15.9
60°-70°	742.2	12.0
70°-80°	412.2	6.6
80°-90°	102.5	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°	1768.6	28.5
0°-40°	2857.7	46.1
0°-60°	4948.3	79.7
0°-90°	6205.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6205.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2330	2330	2330	2330	2330	
5°	2316	2319	2322	2318	2313	220
15°	2211	2214	2215	2210	2203	623
25°	2016	2015	2012	2003	1996	928
35°	1749	1750	1743	1733	1729	1095
45°	1444	1444	1437	1425	1422	1114
55°	1110	1102	1104	1092	1090	992
65°	754	750	752	743	738	747
75°	394	388	391	388	382	417
85°	87	85	86	83	80	105
90°	0	0	0	0	0	

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CATALOG NUMBER: 24APR-85L930-X-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2329.7	2329.7	2329.7	2329.7	2329.7
2.5°	2323.7	2328.2	2331.2	2327.5	2326.7
5°	2315.6	2319.3	2322.3	2318.5	2312.6
7.5°	2299.2	2303.7	2305.9	2302.2	2294.0
10°	2276.1	2280.6	2281.3	2277.6	2273.1
12.5°	2247.8	2250.8	2250.8	2247.8	2242.6
15°	2211.4	2213.6	2215.1	2209.9	2203.2
17.5°	2169.7	2173.4	2172.0	2163.8	2160.8
20°	2122.8	2125.8	2122.1	2116.9	2110.2
22.5°	2071.5	2072.2	2069.3	2063.3	2056.6
25°	2016.4	2015.0	2012.0	2003.0	1996.4
27.5°	1952.5	1955.4	1948.0	1939.8	1935.3
30°	1889.2	1889.9	1882.5	1872.1	1868.4
32.5°	1821.5	1820.0	1814.8	1803.6	1797.7
35°	1749.3	1750.1	1743.4	1732.9	1729.2
37.5°	1679.4	1674.9	1669.7	1657.8	1655.6
40°	1601.2	1600.5	1593.1	1582.6	1578.9
42.5°	1523.1	1522.4	1516.4	1506.0	1503.0
45°	1444.2	1444.2	1436.8	1424.9	1421.9
47.5°	1363.9	1360.9	1355.7	1345.3	1341.6
50°	1279.1	1276.8	1273.9	1261.9	1261.2
52.5°	1195.7	1194.2	1189.0	1178.6	1172.7
55°	1110.2	1102.0	1104.2	1092.3	1090.1
57.5°	1022.4	1014.2	1018.6	1008.2	1003.8
60°	935.3	927.1	929.3	922.7	942.0
62.5°	846.0	840.8	840.8	856.4	828.2
65°	754.5	750.0	752.3	742.6	738.1
67.5°	664.5	657.8	671.9	654.0	646.6
70°	572.9	568.5	573.7	563.3	558.1
72.5°	482.2	478.4	477.0	473.2	468.8
75°	393.6	388.4	390.6	387.7	381.7
77.5°	307.3	305.8	305.1	301.3	296.9
80°	226.9	225.5	224.0	221.0	218.0
82.5°	151.8	150.3	149.6	148.1	147.3
85°	87.1	84.8	86.3	82.6	79.6
87.5°	32.7	32.0	33.5	30.5	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)