

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: P708789

Luminaire Tested: **22APR-30L850-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708789
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-30L850-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

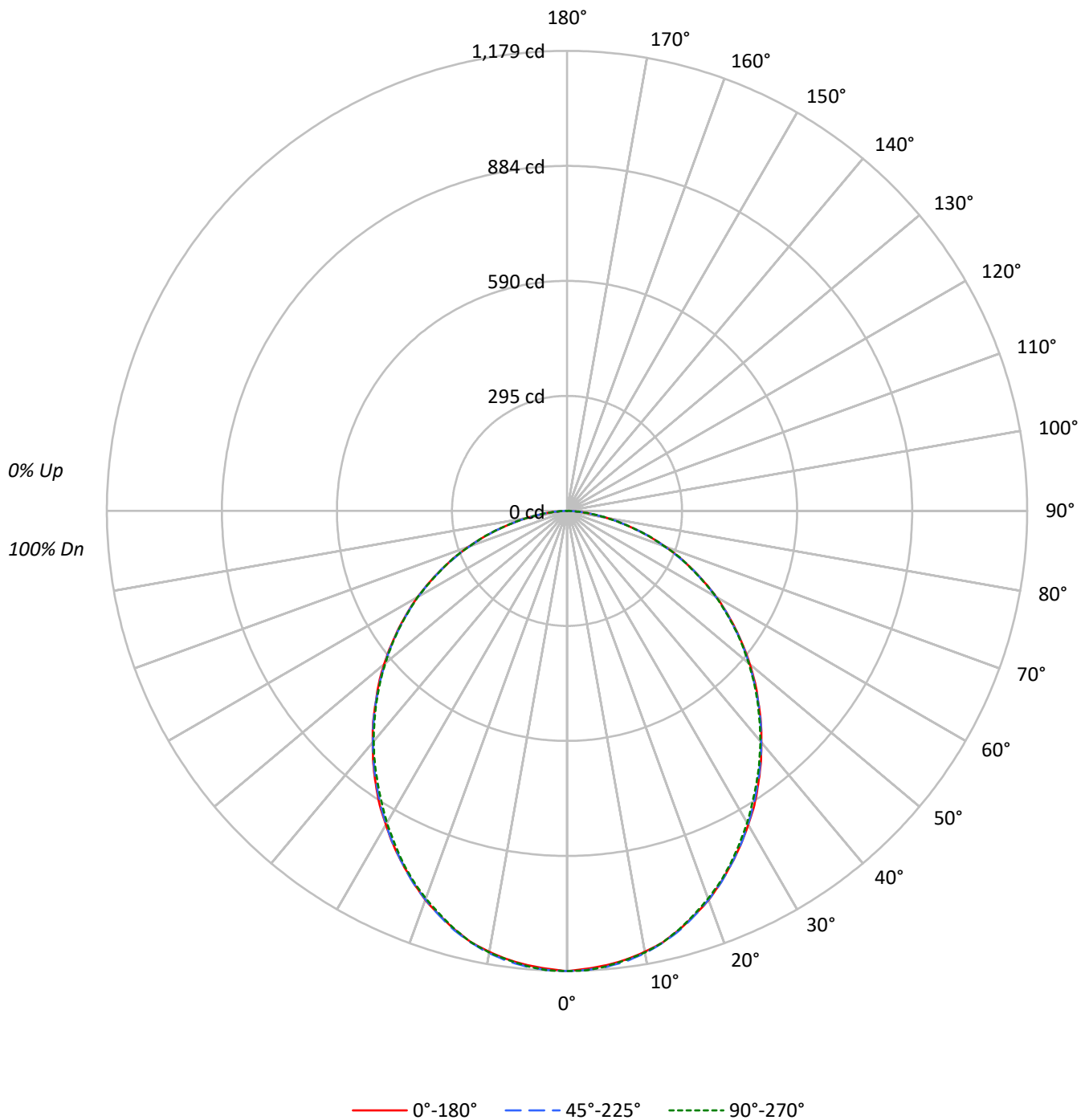
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3012.9 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 30.1
Input Voltage (V): 120
Input Current (A_{in}): 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				0
RW	70	50	30	10	70	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		100
1	109	104	100	96	106	102	98	95	98	95	92		94	91	89		84
2	99	91	85	79	97	89	83	78	86	81	76		83	78	74		71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		60
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		51
5	77	64	55	49	75	63	54	48	61	53	48		59	52	47		45
6	71	58	49	43	69	57	48	42	55	47	42		53	47	42		39
7	66	52	44	38	64	52	43	38	50	43	37		49	42	37		35
8	61	48	39	34	60	47	39	34	46	39	33		45	38	33		31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		28
10	54	41	33	28	53	40	33	28	39	32	27		38	32	27		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3173	3173	3173
5°	3157	3168	3164
10°	3136	3145	3140
15°	3095	3102	3093
20°	3039	3037	3027
25°	2962	2962	2953
30°	2885	2882	2867
35°	2806	2799	2782
40°	2721	2718	2707
45°	2638	2635	2625
50°	2560	2550	2544
55°	2472	2461	2461
60°	2380	2371	2376
65°	2256	2261	2246
70°	2108	2095	2095
75°	1880	1888	1888
80°	1590	1590	1602
85°	1207	1207	1232



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	3.7
10°-20°	313.3	10.4
20°-30°	459.5	15.2
30°-40°	533.0	17.7
40°-50°	534.4	17.7
50°-60°	470.0	15.6
60°-70°	350.7	11.6
70°-80°	193.0	6.4
80°-90°	47.8	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°	884.0	29.3
0°-40°	1417.0	47.0
0°-60°	2421.4	80.4
0°-90°	3012.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3012.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1179	1179	1179	1179	1179	
5°	1169	1173	1173	1173	1171	111
15°	1111	1116	1113	1112	1110	313
25°	998	1002	998	997	994	460
35°	854	855	852	850	847	534
45°	693	696	692	692	690	536
55°	527	528	524	525	524	471
65°	354	354	355	354	353	351
75°	181	182	182	180	182	193
85°	39	40	39	39	40	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1179.3	1179.3	1179.3	1179.3	1179.3
2.5°	1174.4	1178.5	1177.7	1180.1	1178.5
5°	1168.7	1172.8	1172.8	1172.8	1171.2
7.5°	1159.8	1163.8	1163.8	1163.8	1160.6
10°	1147.5	1151.6	1150.8	1150.8	1149.2
12.5°	1132.9	1135.3	1133.7	1133.7	1132.9
15°	1110.9	1115.8	1113.3	1111.7	1110.1
17.5°	1086.5	1091.3	1087.3	1086.5	1084.0
20°	1061.2	1064.5	1060.4	1060.4	1057.1
22.5°	1030.3	1033.5	1031.1	1029.4	1027.8
25°	997.7	1001.8	997.7	996.9	994.4
27.5°	964.3	967.6	963.5	960.2	958.6
30°	928.5	930.9	927.6	925.2	922.8
32.5°	893.4	893.4	890.2	887.7	884.5
35°	854.3	855.2	851.9	849.5	847.0
37.5°	815.3	816.9	813.6	811.2	809.5
40°	774.5	776.2	773.7	771.3	770.5
42.5°	735.4	735.4	733.8	731.4	729.7
45°	693.1	695.5	692.3	691.5	689.8
47.5°	654.0	654.0	650.7	649.1	649.1
50°	611.6	613.3	609.2	608.4	607.6
52.5°	569.3	568.5	567.7	566.8	566.0
55°	526.9	527.8	524.5	525.3	524.5
57.5°	484.6	483.8	483.0	482.1	481.3
60°	442.2	441.4	440.6	439.8	441.4
62.5°	398.3	399.1	396.6	399.1	395.8
65°	354.3	354.3	355.1	353.5	352.7
67.5°	311.9	311.9	310.3	310.3	313.6
70°	267.9	268.8	266.3	269.6	266.3
72.5°	224.8	225.6	224.8	224.0	225.6
75°	180.8	181.6	181.6	180.0	181.6
77.5°	140.9	141.7	140.9	140.1	140.9
80°	102.6	103.4	102.6	101.8	103.4
82.5°	68.4	69.2	68.4	68.4	69.2
85°	39.1	39.9	39.1	39.1	39.9
87.5°	15.5	16.3	16.3	16.3	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)