

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: P708779

Luminaire Tested: **22APR-30L835-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708779
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-30L835-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

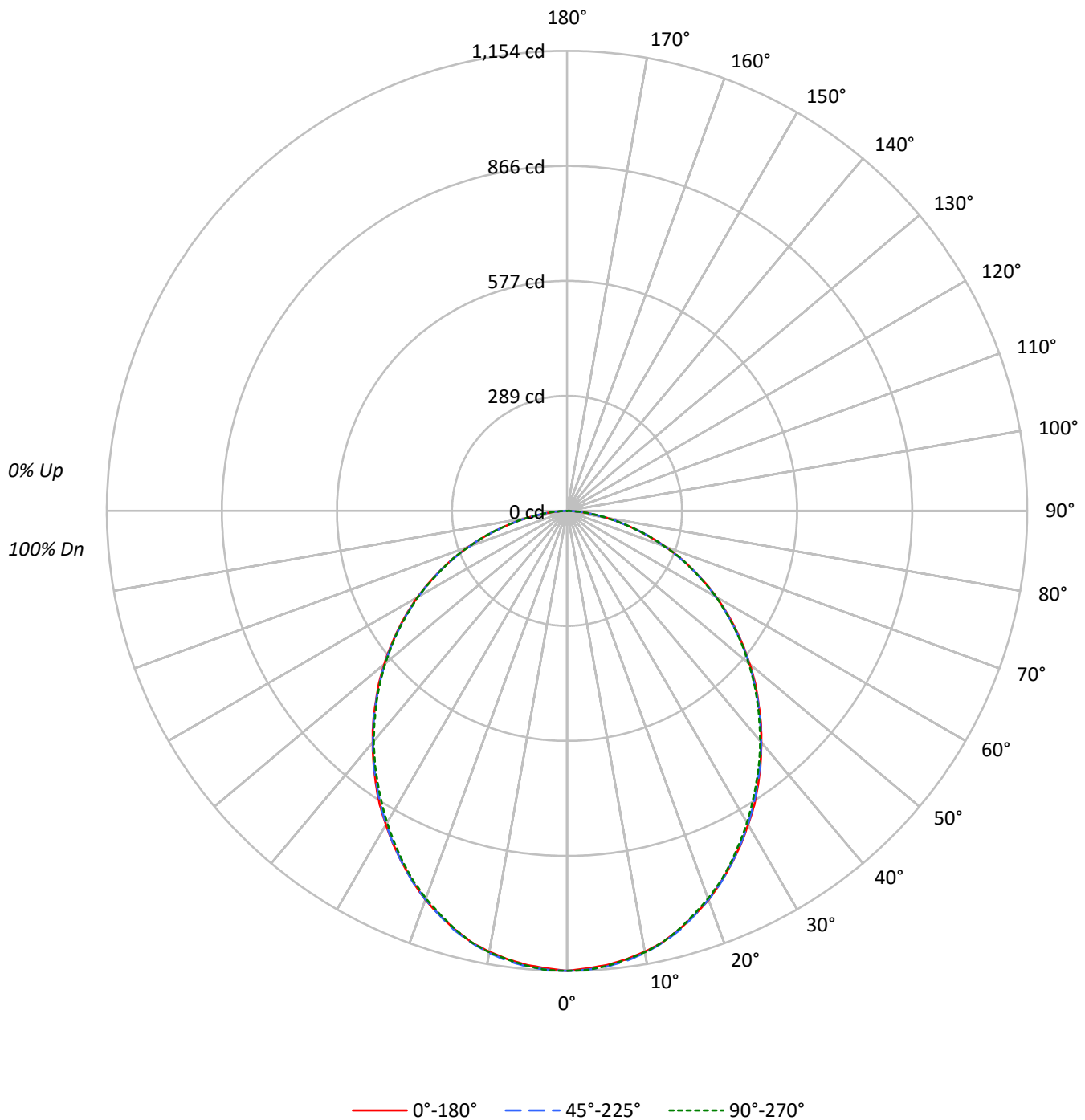
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2947.8 lumens
Efficiency: N/A
Efficacy: 97.9 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 (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				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		0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102		100
1	109	104	100	96	106	102	98	95	98	95	92		94	91	89		90	88	86		84
2	99	91	85	79	97	89	83	78	86	81	76		83	78	74		80	76	73		71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		71	66	62		60
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	53		51
5	77	64	55	49	75	63	54	48	61	53	48		59	52	47		57	51	47		45
6	71	58	49	43	69	57	48	42	55	47	42		53	47	42		52	46	41		39
7	66	52	44	38	64	52	43	38	50	43	37		49	42	37		47	41	37		35
8	61	48	39	34	60	47	39	34	46	39	33		45	38	33		43	37	33		31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40	34	30		28
10	54	41	33	28	53	40	33	28	39	32	27		38	32	27		37	31	27		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3105	3105	3105
5°	3089	3099	3095
10°	3068	3077	3072
15°	3028	3035	3026
20°	2973	2971	2962
25°	2898	2898	2889
30°	2823	2820	2805
35°	2746	2738	2722
40°	2662	2659	2648
45°	2581	2578	2568
50°	2505	2495	2488
55°	2419	2408	2408
60°	2329	2320	2324
65°	2207	2212	2197
70°	2063	2050	2050
75°	1839	1848	1848
80°	1556	1556	1568
85°	1179	1179	1204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	3.7
10°-20°	306.6	10.4
20°-30°	449.5	15.2
30°-40°	521.5	17.7
40°-50°	522.9	17.7
50°-60°	459.8	15.6
60°-70°	343.2	11.6
70°-80°	188.8	6.4
80°-90°	46.7	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°	864.9	29.3
0°-40°	1386.4	47.0
0°-60°	2369.1	80.4
0°-90°	2947.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2947.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1154	1154	1154	1154	1154	
5°	1144	1147	1147	1147	1146	109
15°	1087	1092	1089	1088	1086	306
25°	976	980	976	975	973	450
35°	836	837	834	831	829	523
45°	678	680	677	676	675	524
55°	516	516	513	514	513	461
65°	347	347	347	346	345	344
75°	177	178	178	176	178	189
85°	38	39	38	38	39	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1153.8	1153.8	1153.8	1153.8	1153.8
2.5°	1149.0	1153.0	1152.2	1154.6	1153.0
5°	1143.5	1147.4	1147.4	1147.4	1145.9
7.5°	1134.7	1138.7	1138.7	1138.7	1135.5
10°	1122.7	1126.7	1125.9	1125.9	1124.3
12.5°	1108.4	1110.8	1109.2	1109.2	1108.4
15°	1086.9	1091.7	1089.3	1087.7	1086.1
17.5°	1063.0	1067.8	1063.8	1063.0	1060.6
20°	1038.3	1041.5	1037.5	1037.5	1034.3
22.5°	1008.0	1011.2	1008.8	1007.2	1005.6
25°	976.1	980.1	976.1	975.3	972.9
27.5°	943.5	946.6	942.7	939.5	937.9
30°	908.4	910.8	907.6	905.2	902.8
32.5°	874.1	874.1	870.9	868.6	865.4
35°	835.9	836.7	833.5	831.1	828.7
37.5°	797.6	799.2	796.0	793.6	792.1
40°	757.8	759.4	757.0	754.6	753.8
42.5°	719.5	719.5	718.0	715.6	714.0
45°	678.1	680.5	677.3	676.5	674.9
47.5°	639.9	639.9	636.7	635.1	635.1
50°	598.4	600.0	596.0	595.2	594.4
52.5°	557.0	556.2	555.4	554.6	553.8
55°	515.6	516.4	513.2	514.0	513.2
57.5°	474.1	473.3	472.5	471.7	470.9
60°	432.7	431.9	431.1	430.3	431.9
62.5°	389.7	390.5	388.1	390.5	387.3
65°	346.6	346.6	347.4	345.8	345.0
67.5°	305.2	305.2	303.6	303.6	306.8
70°	262.2	263.0	260.6	263.8	260.6
72.5°	219.9	220.7	219.9	219.1	220.7
75°	176.9	177.7	177.7	176.1	177.7
77.5°	137.9	138.6	137.9	137.1	137.9
80°	100.4	101.2	100.4	99.6	101.2
82.5°	66.9	67.7	66.9	66.9	67.7
85°	38.2	39.0	38.2	38.2	39.0
87.5°	15.1	15.9	15.9	15.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)