

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: P708859

Luminaire Tested: **22APR-30-71L835-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708859
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-30-71L835-UNV
Description: ArcMed Patient Recessed 2x2 Fixture Ambient and Exam Light
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

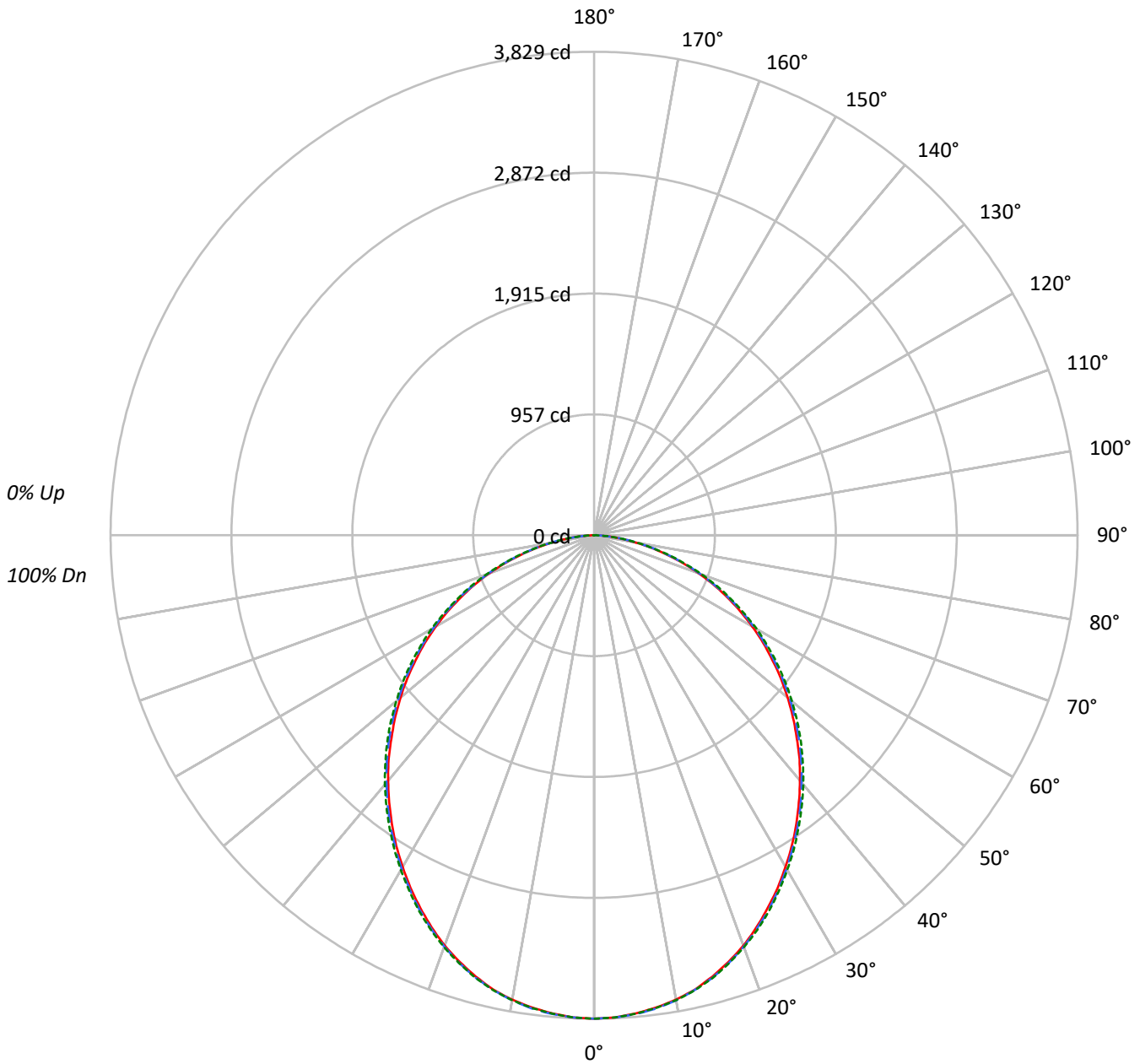
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9958.3 lumens
Efficiency: N/A
Efficacy: 110.5 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): 90.1
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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CATALOG NUMBER: 22APR-30-71L835-UNV

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° ···· 90°-270°



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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°	10303	10303	10303
5°	10269	10282	10274
10°	10205	10220	10218
15°	10080	10107	10111
20°	9907	9928	9941
25°	9668	9713	9744
30°	9422	9474	9508
35°	9170	9232	9280
40°	8912	8982	9054
45°	8635	8741	8816
50°	8377	8477	8564
55°	8089	8198	8299
60°	7795	7897	8009
65°	7409	7531	7617
70°	6933	7028	7128
75°	6235	6352	6435
80°	5264	5401	5450
85°	3940	4113	4088



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.2	3.6
10°-20°	1021.7	10.3
20°-30°	1506.0	15.1
30°-40°	1757.6	17.6
40°-50°	1771.3	17.8
50°-60°	1563.3	15.7
60°-70°	1169.2	11.7
70°-80°	647.9	6.5
80°-90°	160.2	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°	2888.9	29.0
0°-40°	4646.5	46.7
0°-60°	7981.0	80.1
0°-90°	9958.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9958.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3829	3829	3829	3829	3829	
5°	3802	3806	3806	3807	3803	361
15°	3618	3625	3628	3631	3629	1020
25°	3256	3263	3271	3278	3282	1500
35°	2791	2798	2810	2822	2825	1746
45°	2269	2283	2297	2313	2317	1753
55°	1724	1735	1747	1763	1769	1543
65°	1164	1169	1183	1192	1196	1153
75°	600	603	611	617	619	637
85°	128	132	133	132	132	156
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3828.8	3828.8	3828.8	3828.8	3828.8
2.5°	3821.6	3825.6	3822.4	3825.6	3822.4
5°	3801.7	3806.5	3806.5	3807.3	3803.3
7.5°	3772.2	3777.8	3780.2	3781.0	3775.4
10°	3734.7	3740.3	3740.3	3743.5	3739.5
12.5°	3686.9	3690.1	3689.3	3694.0	3690.8
15°	3618.3	3624.7	3627.8	3631.0	3629.4
17.5°	3541.7	3549.7	3552.1	3557.7	3553.7
20°	3459.6	3465.2	3466.8	3475.5	3471.5
22.5°	3361.5	3367.1	3372.6	3380.6	3381.4
25°	3256.2	3263.4	3271.4	3277.7	3281.7
27.5°	3147.7	3154.9	3162.1	3170.1	3171.7
30°	3032.1	3040.9	3048.9	3058.4	3060.0
32.5°	2915.7	2918.9	2930.8	2941.2	2946.0
35°	2791.3	2797.6	2810.4	2821.6	2824.8
37.5°	2664.5	2674.0	2687.6	2699.6	2702.7
40°	2536.9	2544.8	2556.8	2572.7	2577.5
42.5°	2407.7	2413.2	2429.2	2442.8	2446.7
45°	2268.9	2283.3	2296.8	2312.8	2316.7
47.5°	2136.5	2147.7	2161.2	2176.4	2182.8
50°	2000.9	2014.5	2024.9	2041.6	2045.6
52.5°	1865.4	1874.1	1888.5	1902.8	1909.2
55°	1724.2	1734.6	1747.3	1763.3	1768.9
57.5°	1588.6	1594.2	1608.6	1622.1	1626.9
60°	1448.3	1453.9	1467.4	1481.8	1488.1
62.5°	1307.9	1312.7	1323.9	1340.6	1340.6
65°	1163.6	1169.1	1182.7	1192.3	1196.3
67.5°	1023.2	1028.0	1037.6	1049.5	1055.1
70°	881.2	885.2	893.2	905.2	906.0
72.5°	739.3	743.3	753.6	757.6	763.2
75°	599.7	602.9	610.9	617.3	618.9
77.5°	466.5	471.3	476.9	479.3	481.7
80°	339.7	344.5	348.5	350.9	351.7
82.5°	224.9	229.7	232.1	233.7	232.9
85°	127.6	131.6	133.2	131.6	132.4
87.5°	50.2	52.6	54.2	53.4	51.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)