

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: P708773

Luminaire Tested: **22APR-34L830-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708773
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-34L830-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

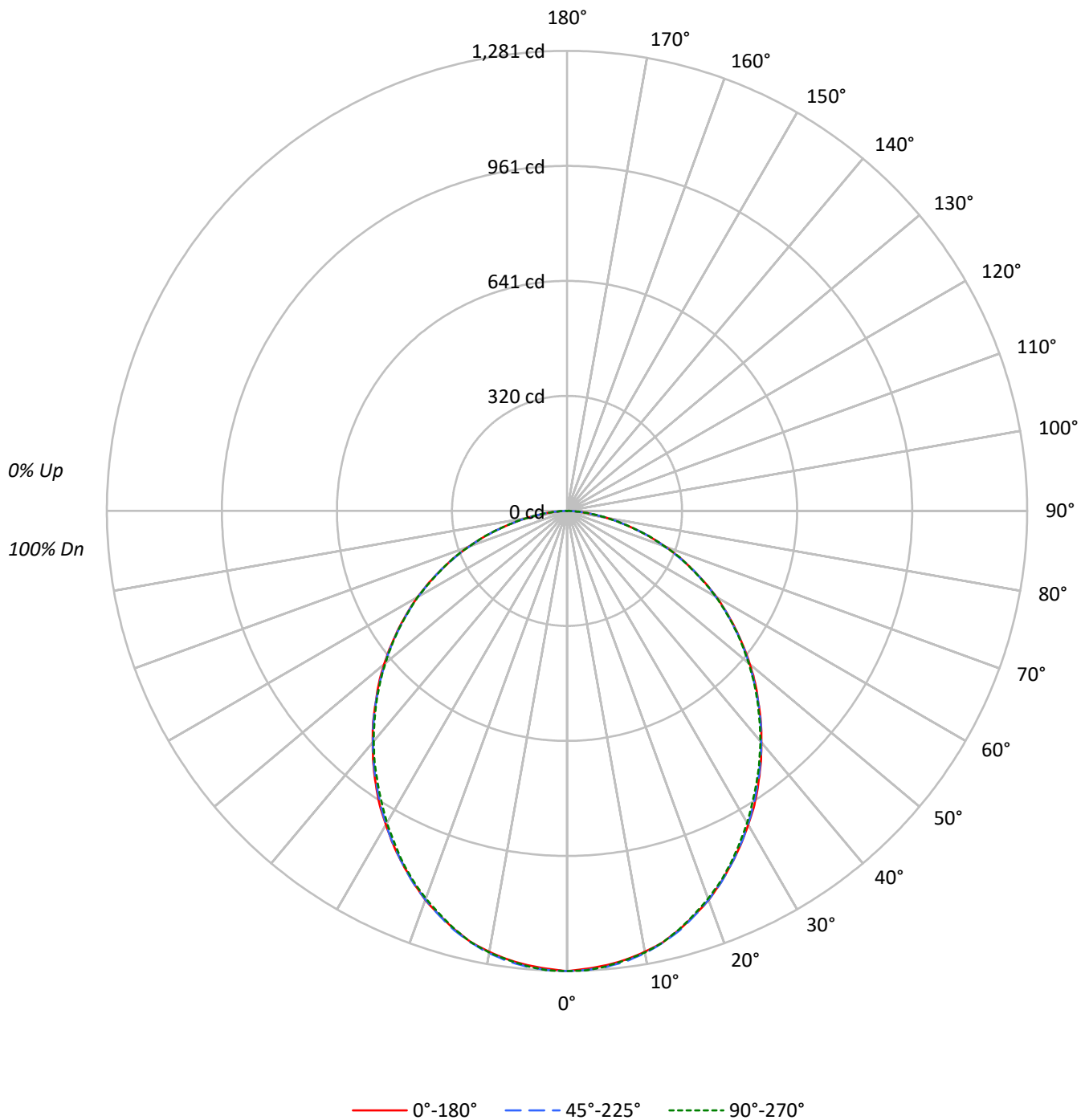
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3273.6 lumens
Efficiency: N/A
Efficacy: 94.9 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): 34.5
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				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°	3448	3448	3448
5°	3430	3442	3437
10°	3407	3417	3412
15°	3363	3370	3360
20°	3302	3300	3289
25°	3219	3219	3208
30°	3135	3132	3115
35°	3050	3041	3023
40°	2956	2953	2941
45°	2866	2863	2852
50°	2782	2771	2763
55°	2686	2674	2674
60°	2586	2576	2581
65°	2451	2457	2440
70°	2290	2277	2277
75°	2042	2051	2051
80°	1728	1728	1742
85°	1312	1312	1340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	3.7
10°-20°	340.5	10.4
20°-30°	499.2	15.2
30°-40°	579.1	17.7
40°-50°	580.6	17.7
50°-60°	510.7	15.6
60°-70°	381.1	11.6
70°-80°	209.7	6.4
80°-90°	51.9	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°	960.5	29.3
0°-40°	1539.6	47.0
0°-60°	2630.9	80.4
0°-90°	3273.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3273.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1281	1281	1281	1281	1281	
5°	1270	1274	1274	1274	1272	120
15°	1207	1212	1210	1208	1206	340
25°	1084	1088	1084	1083	1080	499
35°	928	929	926	923	920	581
45°	753	756	752	751	750	582
55°	572	573	570	571	570	512
65°	385	385	386	384	383	382
75°	196	197	197	196	197	210
85°	42	43	42	42	43	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1281.3	1281.3	1281.3	1281.3	1281.3
2.5°	1276.0	1280.5	1279.6	1282.2	1280.5
5°	1269.8	1274.3	1274.3	1274.3	1272.5
7.5°	1260.1	1264.5	1264.5	1264.5	1261.0
10°	1246.8	1251.3	1250.4	1250.4	1248.6
12.5°	1230.9	1233.6	1231.8	1231.8	1230.9
15°	1207.0	1212.3	1209.7	1207.9	1206.1
17.5°	1180.5	1185.8	1181.4	1180.5	1177.8
20°	1153.0	1156.6	1152.2	1152.2	1148.6
22.5°	1119.4	1123.0	1120.3	1118.5	1116.8
25°	1084.0	1088.4	1084.0	1083.1	1080.5
27.5°	1047.7	1051.3	1046.8	1043.3	1041.5
30°	1008.8	1011.5	1007.9	1005.3	1002.6
32.5°	970.7	970.7	967.2	964.6	961.0
35°	928.3	929.2	925.6	923.0	920.3
37.5°	885.8	887.6	884.0	881.4	879.6
40°	841.5	843.3	840.7	838.0	837.1
42.5°	799.1	799.1	797.3	794.6	792.9
45°	753.1	755.7	752.2	751.3	749.5
47.5°	710.6	710.6	707.0	705.3	705.3
50°	664.6	666.3	661.9	661.0	660.1
52.5°	618.6	617.7	616.8	615.9	615.0
55°	572.5	573.4	569.9	570.8	569.9
57.5°	526.5	525.6	524.8	523.9	523.0
60°	480.5	479.6	478.7	477.9	479.6
62.5°	432.7	433.6	431.0	433.6	430.1
65°	384.9	384.9	385.8	384.1	383.2
67.5°	338.9	338.9	337.2	337.2	340.7
70°	291.1	292.0	289.4	292.9	289.4
72.5°	244.2	245.1	244.2	243.4	245.1
75°	196.4	197.3	197.3	195.6	197.3
77.5°	153.1	154.0	153.1	152.2	153.1
80°	111.5	112.4	111.5	110.6	112.4
82.5°	74.3	75.2	74.3	74.3	75.2
85°	42.5	43.4	42.5	42.5	43.4
87.5°	16.8	17.7	17.7	17.7	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)