

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: P708774

Luminaire Tested: **22APR-30L830-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708774
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-30L830-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

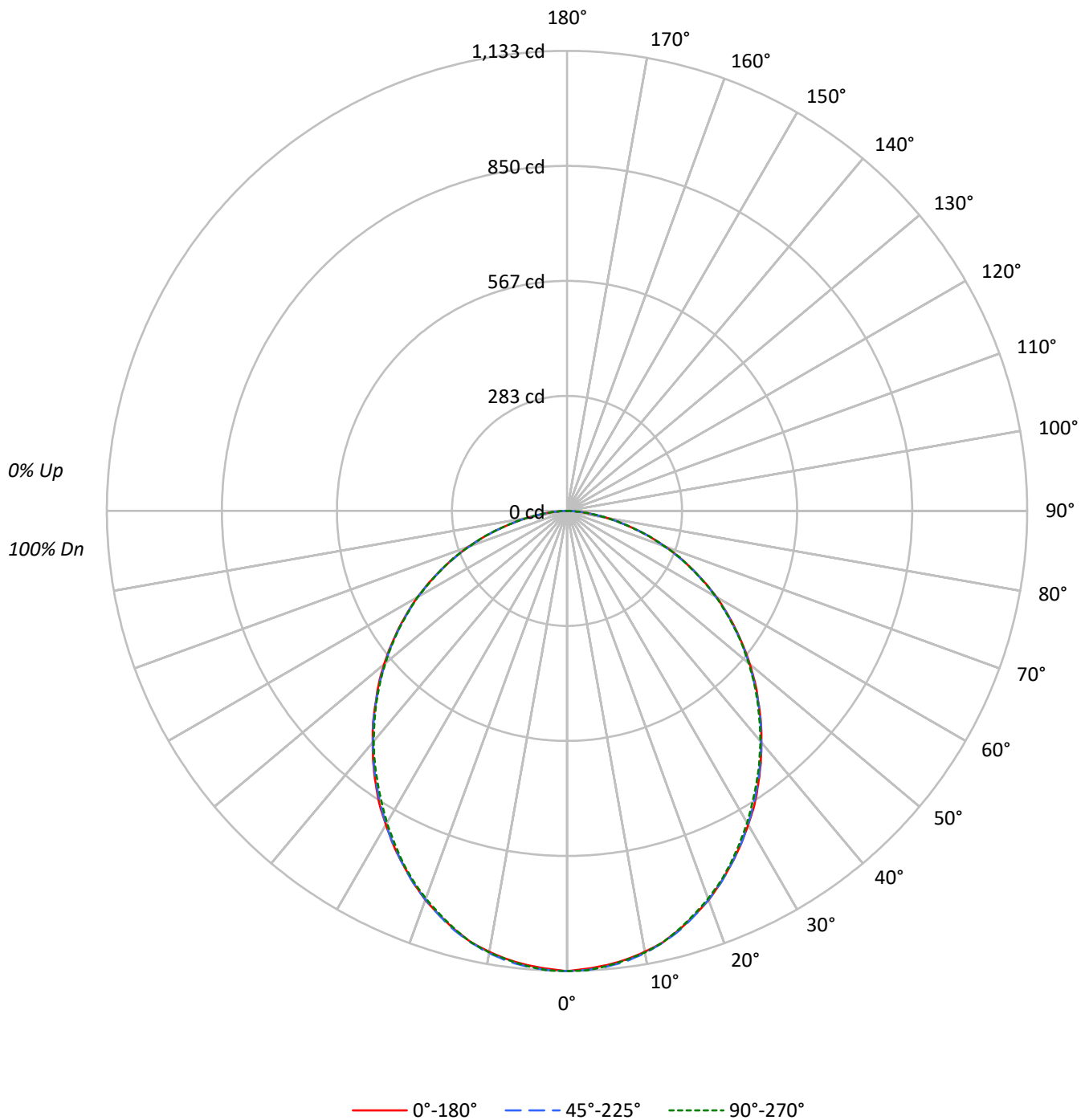
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2895.3 lumens
Efficiency: N/A
Efficacy: 96.2 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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	95	92		94	91	89		90
2	99	91	85	79	97	89	83	78	86	81	76		83	78	74		80
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		71
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63
5	77	64	55	49	75	63	54	48	61	53	48		59	52	47		57
6	71	58	49	43	69	57	48	42	55	47	42		53	47	42		52
7	66	52	44	38	64	52	43	38	50	43	37		49	42	37		47
8	61	48	39	34	60	47	39	34	46	39	33		45	38	33		43
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	27		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3050	3050	3050
5°	3034	3044	3040
10°	3013	3022	3017
15°	2974	2981	2972
20°	2920	2918	2909
25°	2847	2847	2837
30°	2772	2770	2755
35°	2697	2689	2674
40°	2615	2612	2601
45°	2535	2531	2523
50°	2461	2451	2444
55°	2376	2365	2365
60°	2287	2279	2283
65°	2168	2173	2158
70°	2026	2013	2013
75°	1806	1814	1814
80°	1528	1528	1540
85°	1161	1161	1183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	3.7
10°-20°	301.1	10.4
20°-30°	441.5	15.2
30°-40°	512.2	17.7
40°-50°	513.5	17.7
50°-60°	451.6	15.6
60°-70°	337.1	11.6
70°-80°	185.5	6.4
80°-90°	45.9	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°	849.5	29.3
0°-40°	1361.7	47.0
0°-60°	2326.9	80.4
0°-90°	2895.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2895.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1133	1133	1133	1133	1133	
5°	1123	1127	1127	1127	1125	107
15°	1068	1072	1070	1068	1067	301
25°	959	963	959	958	956	442
35°	821	822	819	816	814	513
45°	666	668	665	664	663	515
55°	506	507	504	505	504	453
65°	340	340	341	340	339	337
75°	174	174	174	173	174	185
85°	38	38	38	38	38	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1133.3	1133.3	1133.3	1133.3	1133.3
2.5°	1128.6	1132.5	1131.7	1134.1	1132.5
5°	1123.1	1127.0	1127.0	1127.0	1125.4
7.5°	1114.5	1118.4	1118.4	1118.4	1115.3
10°	1102.7	1106.7	1105.9	1105.9	1104.3
12.5°	1088.7	1091.0	1089.4	1089.4	1088.7
15°	1067.5	1072.2	1069.9	1068.3	1066.7
17.5°	1044.0	1048.7	1044.8	1044.0	1041.7
20°	1019.8	1022.9	1019.0	1019.0	1015.9
22.5°	990.0	993.2	990.8	989.3	987.7
25°	958.7	962.7	958.7	958.0	955.6
27.5°	926.7	929.8	925.9	922.7	921.2
30°	892.2	894.6	891.4	889.1	886.7
32.5°	858.6	858.6	855.4	853.1	850.0
35°	821.0	821.8	818.6	816.3	813.9
37.5°	783.4	785.0	781.9	779.5	777.9
40°	744.3	745.9	743.5	741.2	740.4
42.5°	706.7	706.7	705.2	702.8	701.2
45°	666.0	668.4	665.2	664.5	662.9
47.5°	628.5	628.5	625.3	623.8	623.8
50°	587.8	589.3	585.4	584.6	583.9
52.5°	547.1	546.3	545.5	544.7	543.9
55°	506.4	507.2	504.0	504.8	504.0
57.5°	465.7	464.9	464.1	463.3	462.5
60°	425.0	424.2	423.4	422.6	424.2
62.5°	382.7	383.5	381.1	383.5	380.4
65°	340.5	340.5	341.2	339.7	338.9
67.5°	299.8	299.8	298.2	298.2	301.3
70°	257.5	258.3	255.9	259.1	255.9
72.5°	216.0	216.8	216.0	215.2	216.8
75°	173.7	174.5	174.5	173.0	174.5
77.5°	135.4	136.2	135.4	134.6	135.4
80°	98.6	99.4	98.6	97.8	99.4
82.5°	65.7	66.5	65.7	65.7	66.5
85°	37.6	38.3	37.6	37.6	38.3
87.5°	14.9	15.7	15.7	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)