

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: P708794

Luminaire Tested: **22APR-30L930-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708794
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-30L930-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

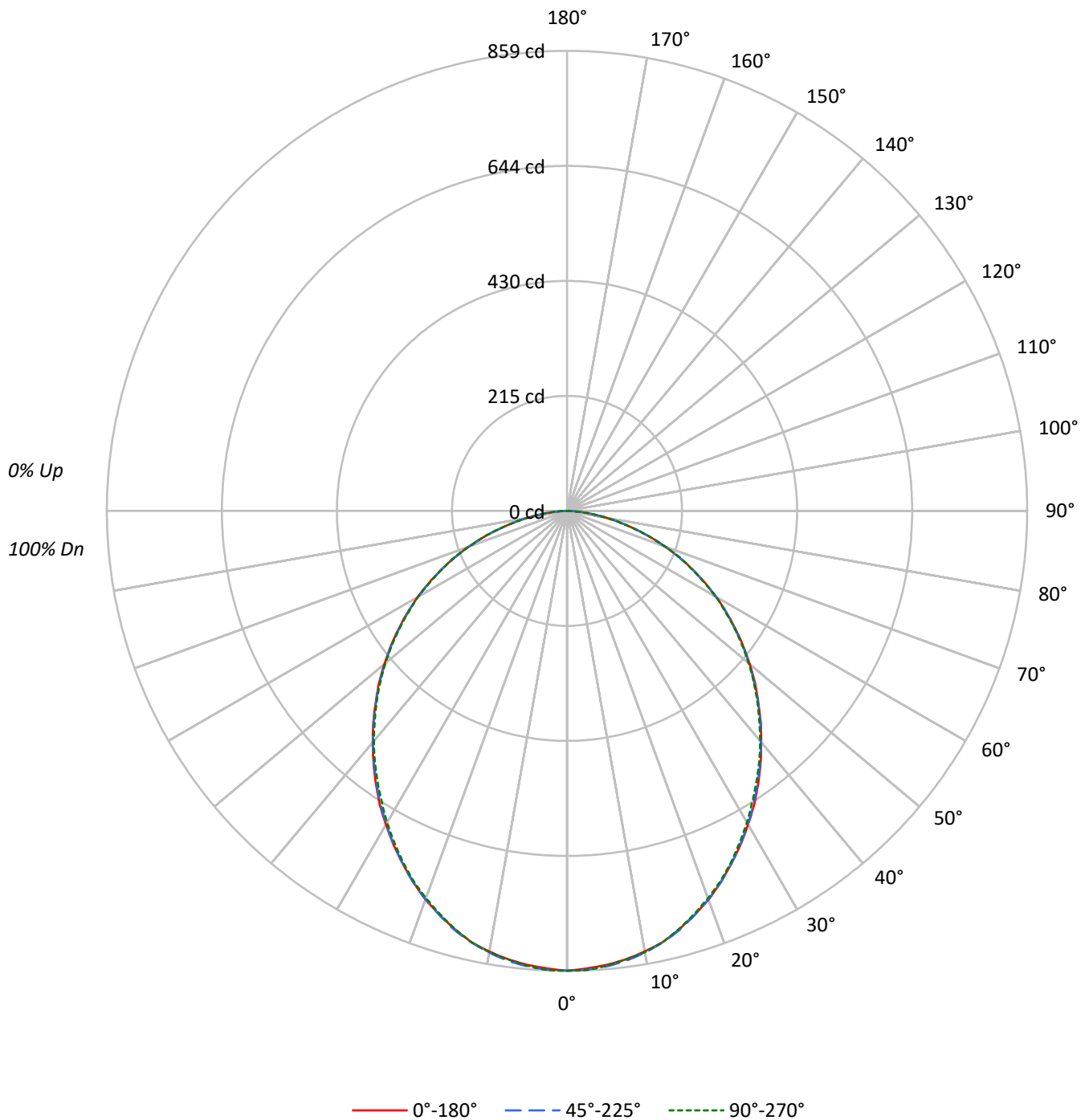
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2193.5 lumens
Efficiency: N/A
Efficacy: 72.9 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

TEST NUMBER: P708794
CATALOG NUMBER: 22APR-30L930-X-UNV

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°	2310	2310	2310
5°	2299	2306	2303
10°	2283	2289	2286
15°	2253	2258	2252
20°	2212	2211	2204
25°	2157	2157	2150
30°	2101	2099	2087
35°	2043	2037	2026
40°	1981	1979	1970
45°	1920	1918	1911
50°	1864	1857	1852
55°	1800	1792	1792
60°	1733	1727	1730
65°	1642	1646	1635
70°	1535	1526	1526
75°	1368	1375	1375
80°	1158	1158	1167
85°	880	880	898



TEST NUMBER: P708794
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	3.7
10°-20°	228.1	10.4
20°-30°	334.5	15.2
30°-40°	388.0	17.7
40°-50°	389.1	17.7
50°-60°	342.2	15.6
60°-70°	255.3	11.6
70°-80°	140.5	6.4
80°-90°	34.8	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°	643.6	29.3
0°-40°	1031.6	47.0
0°-60°	1762.9	80.4
0°-90°	2193.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2193.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	859	859	859	859	859	
5°	851	854	854	854	853	81
15°	809	812	811	809	808	228
25°	726	729	726	726	724	335
35°	622	623	620	618	617	389
45°	505	506	504	503	502	390
55°	384	384	382	382	382	343
65°	258	258	258	257	257	256
75°	132	132	132	131	132	140
85°	28	29	28	28	29	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	858.6	858.6	858.6	858.6	858.6
2.5°	855.0	858.0	857.4	859.2	858.0
5°	850.9	853.8	853.8	853.8	852.7
7.5°	844.4	847.3	847.3	847.3	844.9
10°	835.5	838.4	837.8	837.8	836.6
12.5°	824.8	826.6	825.4	825.4	824.8
15°	808.8	812.3	810.6	809.4	808.2
17.5°	791.0	794.5	791.6	791.0	789.2
20°	772.6	775.0	772.0	772.0	769.6
22.5°	750.1	752.4	750.7	749.5	748.3
25°	726.4	729.3	726.4	725.8	724.0
27.5°	702.0	704.4	701.5	699.1	697.9
30°	676.0	677.7	675.4	673.6	671.8
32.5°	650.5	650.5	648.1	646.3	643.9
35°	622.0	622.6	620.2	618.4	616.7
37.5°	593.5	594.7	592.4	590.6	589.4
40°	563.9	565.1	563.3	561.5	560.9
42.5°	535.4	535.4	534.2	532.5	531.3
45°	504.6	506.4	504.0	503.4	502.2
47.5°	476.1	476.1	473.8	472.6	472.6
50°	445.3	446.5	443.5	442.9	442.3
52.5°	414.5	413.9	413.3	412.7	412.1
55°	383.6	384.2	381.9	382.4	381.9
57.5°	352.8	352.2	351.6	351.0	350.4
60°	322.0	321.4	320.8	320.2	321.4
62.5°	289.9	290.5	288.8	290.5	288.2
65°	257.9	257.9	258.5	257.3	256.7
67.5°	227.1	227.1	225.9	225.9	228.3
70°	195.1	195.7	193.9	196.3	193.9
72.5°	163.7	164.2	163.7	163.1	164.2
75°	131.6	132.2	132.2	131.0	132.2
77.5°	102.6	103.2	102.6	102.0	102.6
80°	74.7	75.3	74.7	74.1	75.3
82.5°	49.8	50.4	49.8	49.8	50.4
85°	28.5	29.1	28.5	28.5	29.1
87.5°	11.3	11.9	11.9	11.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)