

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: P708793

Luminaire Tested: **22APR-34L930-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708793
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-34L930-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

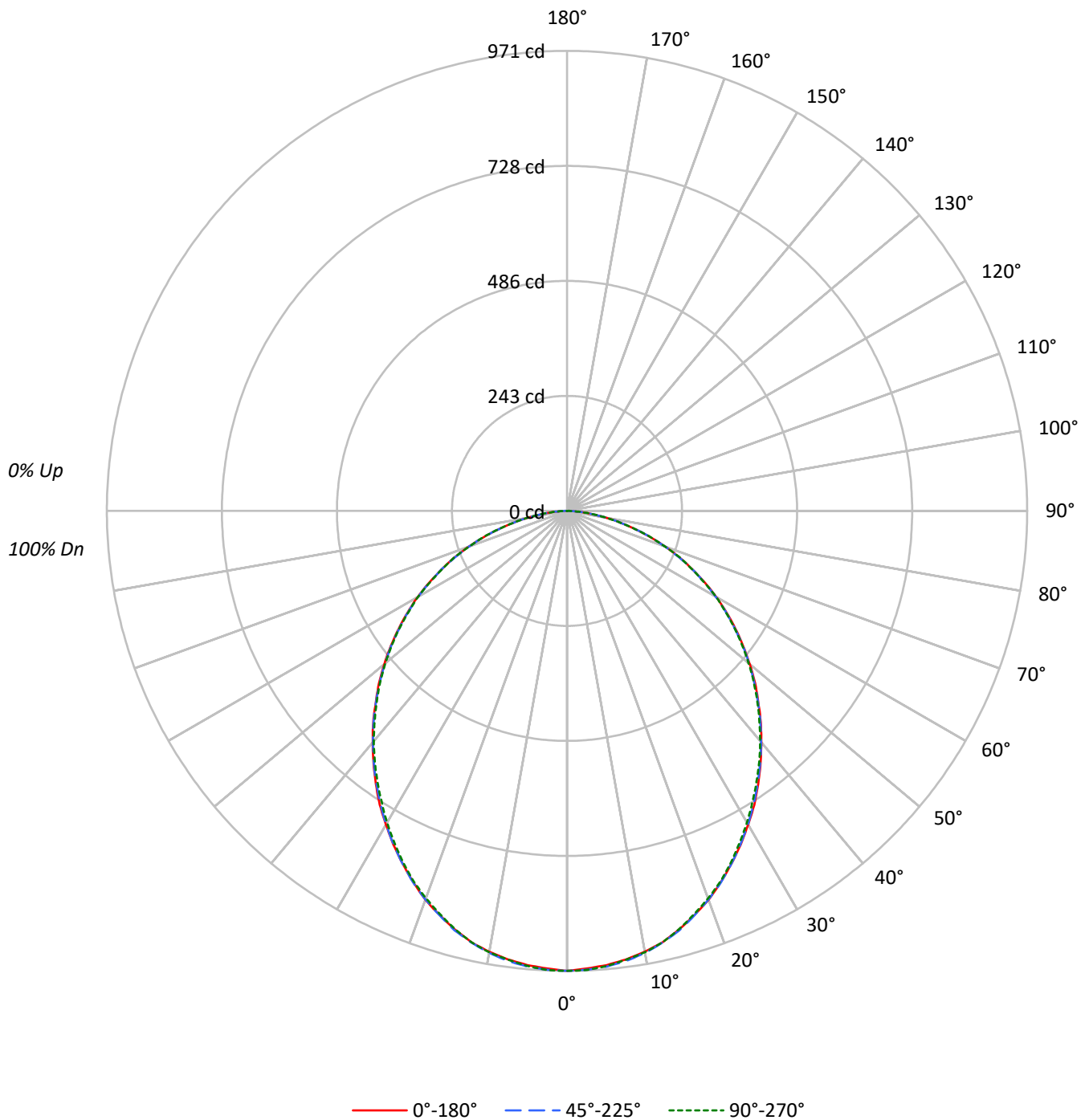
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2480.2 lumens
Efficiency: N/A
Efficacy: 71.9 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
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°	2612	2612	2612
5°	2599	2608	2604
10°	2581	2588	2585
15°	2548	2553	2546
20°	2502	2500	2492
25°	2439	2439	2431
30°	2375	2373	2360
35°	2310	2304	2290
40°	2240	2237	2228
45°	2171	2169	2161
50°	2108	2099	2094
55°	2035	2026	2026
60°	1959	1952	1956
65°	1857	1861	1848
70°	1736	1725	1725
75°	1547	1554	1554
80°	1309	1309	1319
85°	994	994	1016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	3.7
10°-20°	257.9	10.4
20°-30°	378.2	15.2
30°-40°	438.8	17.7
40°-50°	439.9	17.7
50°-60°	386.9	15.6
60°-70°	288.7	11.6
70°-80°	158.9	6.4
80°-90°	39.3	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°	727.7	29.3
0°-40°	1166.4	47.0
0°-60°	1993.2	80.4
0°-90°	2480.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2480.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	971	971	971	971	971	
5°	962	965	965	965	964	91
15°	914	918	916	915	914	258
25°	821	825	821	821	819	378
35°	703	704	701	699	697	440
45°	570	572	570	569	568	441
55°	434	434	432	432	432	388
65°	292	292	292	291	290	289
75°	149	150	150	148	150	159
85°	32	33	32	32	33	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	970.8	970.8	970.8	970.8	970.8
2.5°	966.7	970.1	969.4	971.4	970.1
5°	962.1	965.4	965.4	965.4	964.1
7.5°	954.7	958.0	958.0	958.0	955.4
10°	944.6	948.0	947.3	947.3	946.0
12.5°	932.6	934.6	933.2	933.2	932.6
15°	914.5	918.5	916.5	915.1	913.8
17.5°	894.3	898.4	895.0	894.3	892.3
20°	873.6	876.2	872.9	872.9	870.2
22.5°	848.1	850.8	848.8	847.4	846.1
25°	821.3	824.6	821.3	820.6	818.6
27.5°	793.8	796.5	793.1	790.4	789.1
30°	764.3	766.3	763.6	761.6	759.6
32.5°	735.5	735.5	732.8	730.8	728.1
35°	703.3	703.9	701.3	699.3	697.2
37.5°	671.1	672.4	669.8	667.7	666.4
40°	637.6	638.9	636.9	634.9	634.2
42.5°	605.4	605.4	604.1	602.0	600.7
45°	570.5	572.5	569.9	569.2	567.8
47.5°	538.3	538.3	535.7	534.3	534.3
50°	503.5	504.8	501.5	500.8	500.1
52.5°	468.6	468.0	467.3	466.6	465.9
55°	433.8	434.4	431.8	432.4	431.8
57.5°	398.9	398.2	397.6	396.9	396.2
60°	364.0	363.4	362.7	362.0	363.4
62.5°	327.8	328.5	326.5	328.5	325.8
65°	291.6	291.6	292.3	291.0	290.3
67.5°	256.8	256.8	255.4	255.4	258.1
70°	220.6	221.2	219.2	221.9	219.2
72.5°	185.0	185.7	185.0	184.4	185.7
75°	148.8	149.5	149.5	148.2	149.5
77.5°	116.0	116.7	116.0	115.3	116.0
80°	84.5	85.1	84.5	83.8	85.1
82.5°	56.3	57.0	56.3	56.3	57.0
85°	32.2	32.9	32.2	32.2	32.9
87.5°	12.7	13.4	13.4	13.4	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)