

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: P708806

Luminaire Tested: **22APR-22L940-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708806
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-22L940-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

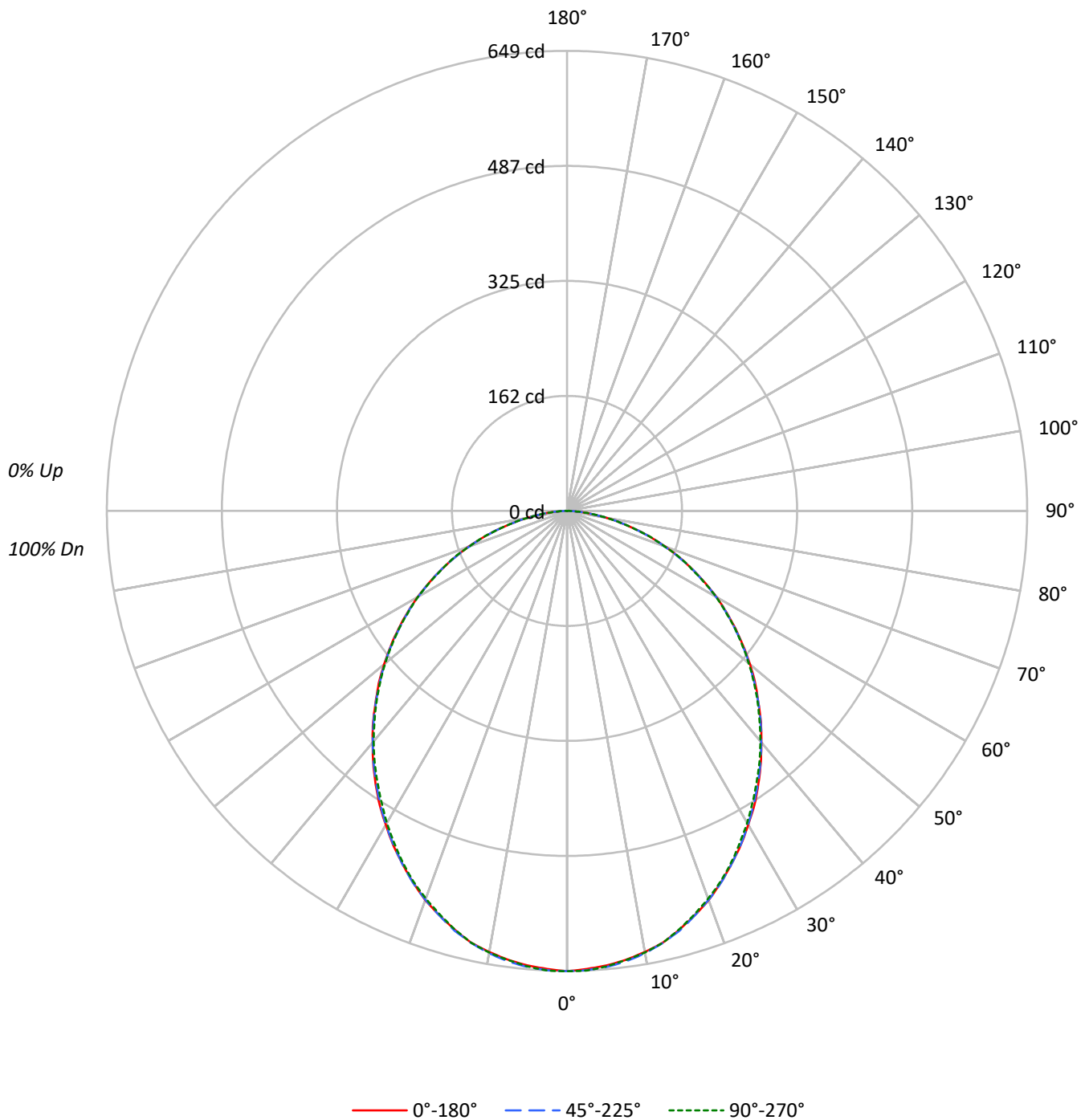
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1659.2 lumens
Efficiency: N/A
Efficacy: 77.9 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): 21.3
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			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°	1748	1748	1748
5°	1739	1744	1742
10°	1727	1732	1729
15°	1704	1708	1703
20°	1674	1672	1667
25°	1631	1631	1626
30°	1589	1587	1579
35°	1546	1541	1532
40°	1498	1497	1490
45°	1453	1451	1446
50°	1410	1405	1401
55°	1361	1355	1355
60°	1311	1306	1308
65°	1242	1245	1237
70°	1161	1154	1154
75°	1036	1040	1040
80°	876	876	883
85°	664	664	679



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	3.7
10°-20°	172.6	10.4
20°-30°	253.0	15.2
30°-40°	293.5	17.7
40°-50°	294.3	17.7
50°-60°	258.8	15.6
60°-70°	193.2	11.6
70°-80°	106.3	6.4
80°-90°	26.3	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°	486.8	29.3
0°-40°	780.3	47.0
0°-60°	1333.4	80.4
0°-90°	1659.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1659.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	649	649	649	649	649	
5°	644	646	646	646	645	61
15°	612	614	613	612	611	172
25°	549	552	549	549	548	253
35°	470	471	469	468	466	294
45°	382	383	381	381	380	295
55°	290	291	289	289	289	260
65°	195	195	196	195	194	193
75°	100	100	100	99	100	106
85°	22	22	22	22	22	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	649.4	649.4	649.4	649.4	649.4
2.5°	646.7	649.0	648.5	649.9	649.0
5°	643.6	645.8	645.8	645.8	644.9
7.5°	638.7	640.9	640.9	640.9	639.1
10°	631.9	634.2	633.7	633.7	632.8
12.5°	623.9	625.2	624.3	624.3	623.9
15°	611.7	614.4	613.1	612.2	611.3
17.5°	598.3	601.0	598.7	598.3	596.9
20°	584.4	586.2	583.9	583.9	582.1
22.5°	567.3	569.1	567.8	566.9	566.0
25°	549.4	551.6	549.4	549.0	547.6
27.5°	531.0	532.8	530.6	528.8	527.9
30°	511.3	512.6	510.8	509.5	508.1
32.5°	492.0	492.0	490.2	488.9	487.1
35°	470.5	470.9	469.1	467.8	466.4
37.5°	448.9	449.8	448.0	446.7	445.8
40°	426.5	427.4	426.1	424.7	424.3
42.5°	405.0	405.0	404.1	402.7	401.9
45°	381.7	383.0	381.2	380.8	379.9
47.5°	360.1	360.1	358.3	357.5	357.5
50°	336.8	337.7	335.5	335.0	334.6
52.5°	313.5	313.0	312.6	312.2	311.7
55°	290.2	290.6	288.8	289.3	288.8
57.5°	266.9	266.4	266.0	265.5	265.1
60°	243.5	243.1	242.6	242.2	243.1
62.5°	219.3	219.8	218.4	219.8	218.0
65°	195.1	195.1	195.5	194.6	194.2
67.5°	171.8	171.8	170.9	170.9	172.7
70°	147.6	148.0	146.7	148.5	146.7
72.5°	123.8	124.2	123.8	123.3	124.2
75°	99.6	100.0	100.0	99.1	100.0
77.5°	77.6	78.0	77.6	77.1	77.6
80°	56.5	57.0	56.5	56.1	57.0
82.5°	37.7	38.1	37.7	37.7	38.1
85°	21.5	22.0	21.5	21.5	22.0
87.5°	8.5	9.0	9.0	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)