

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: P708791

Luminaire Tested: **22APR-22L850-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708791
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-22L850-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

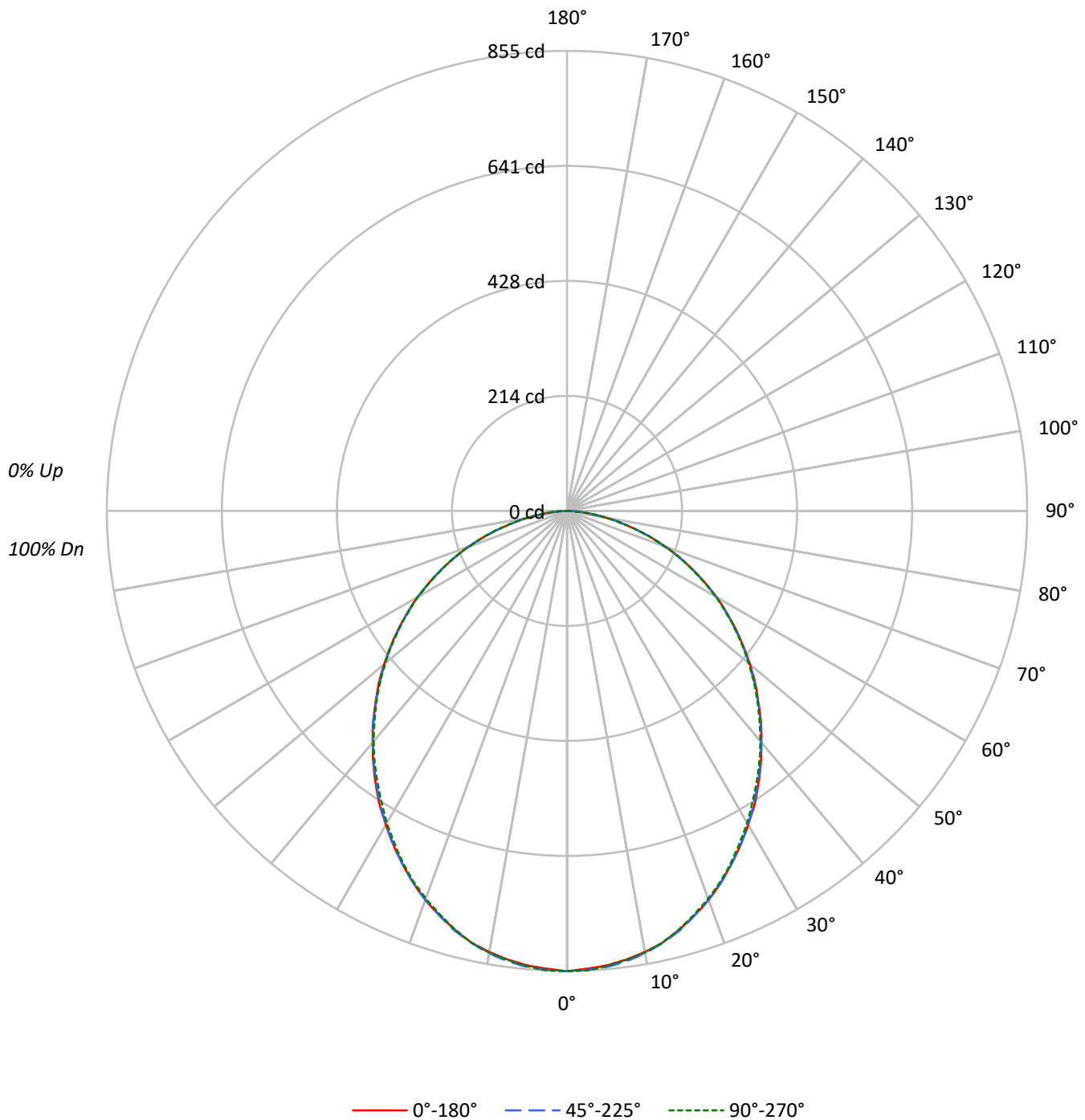
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2185.4 lumens
Efficiency: N/A
Efficacy: 102.6 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
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°	2302	2302	2302
5°	2290	2298	2295
10°	2274	2281	2278
15°	2245	2250	2243
20°	2204	2202	2196
25°	2149	2149	2142
30°	2092	2091	2080
35°	2036	2030	2018
40°	1974	1971	1963
45°	1913	1911	1904
50°	1857	1850	1845
55°	1793	1785	1785
60°	1727	1720	1723
65°	1636	1640	1629
70°	1530	1520	1520
75°	1363	1369	1369
80°	1153	1153	1162
85°	877	877	892



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	3.7
10°-20°	227.3	10.4
20°-30°	333.3	15.2
30°-40°	386.6	17.7
40°-50°	387.6	17.7
50°-60°	340.9	15.6
60°-70°	254.4	11.6
70°-80°	140.0	6.4
80°-90°	34.6	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°	641.2	29.3
0°-40°	1027.8	47.0
0°-60°	1756.3	80.4
0°-90°	2185.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2185.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	855	855	855	855	855	
5°	848	851	851	851	850	80
15°	806	809	808	806	805	227
25°	724	727	724	723	721	333
35°	620	620	618	616	614	388
45°	503	504	502	502	500	389
55°	382	383	380	381	380	342
65°	257	257	258	256	256	255
75°	131	132	132	131	132	140
85°	28	29	28	28	29	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	855.4	855.4	855.4	855.4	855.4
2.5°	851.8	854.8	854.2	856.0	854.8
5°	847.7	850.7	850.7	850.7	849.5
7.5°	841.2	844.2	844.2	844.2	841.8
10°	832.3	835.3	834.7	834.7	833.5
12.5°	821.7	823.5	822.3	822.3	821.7
15°	805.8	809.3	807.5	806.4	805.2
17.5°	788.0	791.6	788.6	788.0	786.3
20°	769.7	772.1	769.1	769.1	766.8
22.5°	747.3	749.6	747.9	746.7	745.5
25°	723.7	726.6	723.7	723.1	721.3
27.5°	699.4	701.8	698.8	696.5	695.3
30°	673.4	675.2	672.9	671.1	669.3
32.5°	648.0	648.0	645.7	643.9	641.5
35°	619.7	620.3	617.9	616.1	614.4
37.5°	591.3	592.5	590.1	588.4	587.2
40°	561.8	563.0	561.2	559.4	558.8
42.5°	533.4	533.4	532.3	530.5	529.3
45°	502.7	504.5	502.1	501.5	500.4
47.5°	474.4	474.4	472.0	470.8	470.8
50°	443.6	444.8	441.9	441.3	440.7
52.5°	412.9	412.3	411.7	411.2	410.6
55°	382.2	382.8	380.4	381.0	380.4
57.5°	351.5	350.9	350.3	349.7	349.1
60°	320.8	320.2	319.6	319.0	320.2
62.5°	288.9	289.5	287.7	289.5	287.1
65°	257.0	257.0	257.6	256.4	255.8
67.5°	226.3	226.3	225.1	225.1	227.4
70°	194.4	194.9	193.2	195.5	193.2
72.5°	163.0	163.6	163.0	162.5	163.6
75°	131.1	131.7	131.7	130.6	131.7
77.5°	102.2	102.8	102.2	101.6	102.2
80°	74.4	75.0	74.4	73.8	75.0
82.5°	49.6	50.2	49.6	49.6	50.2
85°	28.4	28.9	28.4	28.4	28.9
87.5°	11.2	11.8	11.8	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)