

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: P708802

Luminaire Tested: **22APR-38L940-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708802
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-38L940-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

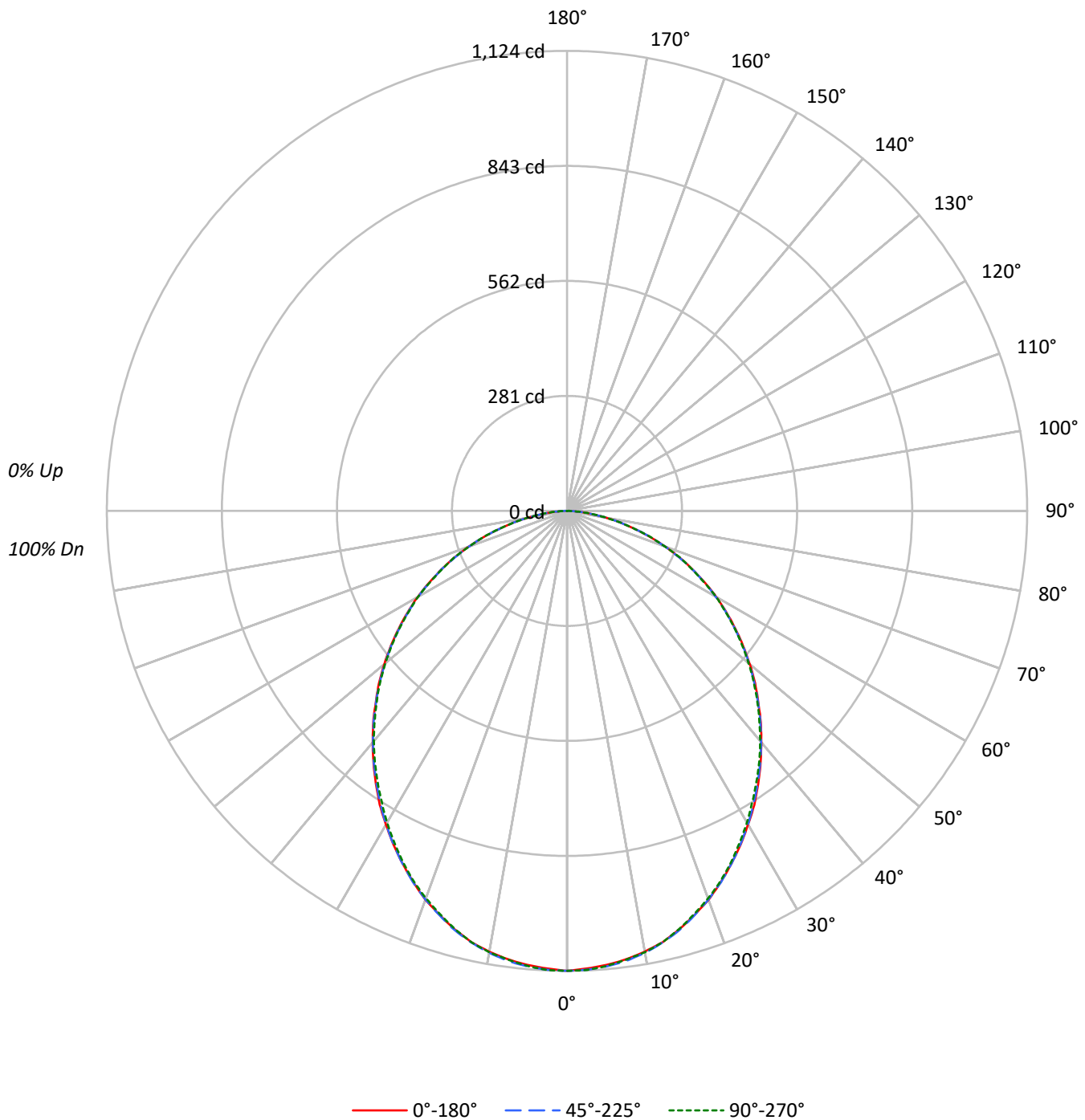
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2870.7 lumens
Efficiency: N/A
Efficacy: 73.6 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): 39
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

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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°	3024	3024	3024
5°	3008	3018	3014
10°	2988	2996	2992
15°	2949	2955	2947
20°	2895	2893	2885
25°	2822	2822	2813
30°	2749	2747	2732
35°	2674	2666	2651
40°	2592	2590	2579
45°	2513	2510	2501
50°	2440	2430	2424
55°	2356	2344	2344
60°	2268	2259	2264
65°	2150	2154	2139
70°	2009	1997	1997
75°	1791	1799	1799
80°	1516	1516	1528
85°	1149	1149	1173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	3.7
10°-20°	298.6	10.4
20°-30°	437.8	15.2
30°-40°	507.8	17.7
40°-50°	509.2	17.7
50°-60°	447.8	15.6
60°-70°	334.2	11.6
70°-80°	183.9	6.4
80°-90°	45.5	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°	842.3	29.3
0°-40°	1350.1	47.0
0°-60°	2307.1	80.4
0°-90°	2870.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2870.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1114	1117	1117	1117	1116	106
15°	1058	1063	1061	1059	1058	298
25°	951	954	951	950	948	438
35°	814	815	812	809	807	509
45°	660	663	660	659	657	510
55°	502	503	500	500	500	449
65°	338	338	338	337	336	335
75°	172	173	173	172	173	184
85°	37	38	37	37	38	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1123.7	1123.7	1123.7	1123.7	1123.7
2.5°	1119.0	1122.9	1122.1	1124.4	1122.9
5°	1113.6	1117.4	1117.4	1117.4	1115.9
7.5°	1105.0	1108.9	1108.9	1108.9	1105.8
10°	1093.4	1097.3	1096.5	1096.5	1094.9
12.5°	1079.4	1081.7	1080.2	1080.2	1079.4
15°	1058.5	1063.1	1060.8	1059.2	1057.7
17.5°	1035.2	1039.8	1036.0	1035.2	1032.9
20°	1011.1	1014.2	1010.4	1010.4	1007.3
22.5°	981.6	984.7	982.4	980.9	979.3
25°	950.6	954.5	950.6	949.8	947.5
27.5°	918.8	921.9	918.0	914.9	913.4
30°	884.6	887.0	883.9	881.5	879.2
32.5°	851.3	851.3	848.2	845.8	842.7
35°	814.0	814.8	811.7	809.4	807.0
37.5°	776.8	778.3	775.2	772.9	771.3
40°	738.0	739.5	737.2	734.9	734.1
42.5°	700.7	700.7	699.2	696.9	695.3
45°	660.4	662.7	659.6	658.8	657.3
47.5°	623.1	623.1	620.0	618.5	618.5
50°	582.8	584.3	580.5	579.7	578.9
52.5°	542.4	541.7	540.9	540.1	539.3
55°	502.1	502.9	499.7	500.5	499.7
57.5°	461.7	460.9	460.2	459.4	458.6
60°	421.4	420.6	419.8	419.0	420.6
62.5°	379.5	380.2	377.9	380.2	377.1
65°	337.6	337.6	338.3	336.8	336.0
67.5°	297.2	297.2	295.7	295.7	298.8
70°	255.3	256.1	253.8	256.9	253.8
72.5°	214.2	215.0	214.2	213.4	215.0
75°	172.3	173.0	173.0	171.5	173.0
77.5°	134.2	135.0	134.2	133.5	134.2
80°	97.8	98.6	97.8	97.0	98.6
82.5°	65.2	66.0	65.2	65.2	66.0
85°	37.2	38.0	37.2	37.2	38.0
87.5°	14.7	15.5	15.5	15.5	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)