

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: P708786

Luminaire Tested: **22APR-22L840-X-UNV**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P708786
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-22L840-X-UNV
Description: ArcMed Patient Recessed 2x2 Fixture AMBIENT Light
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

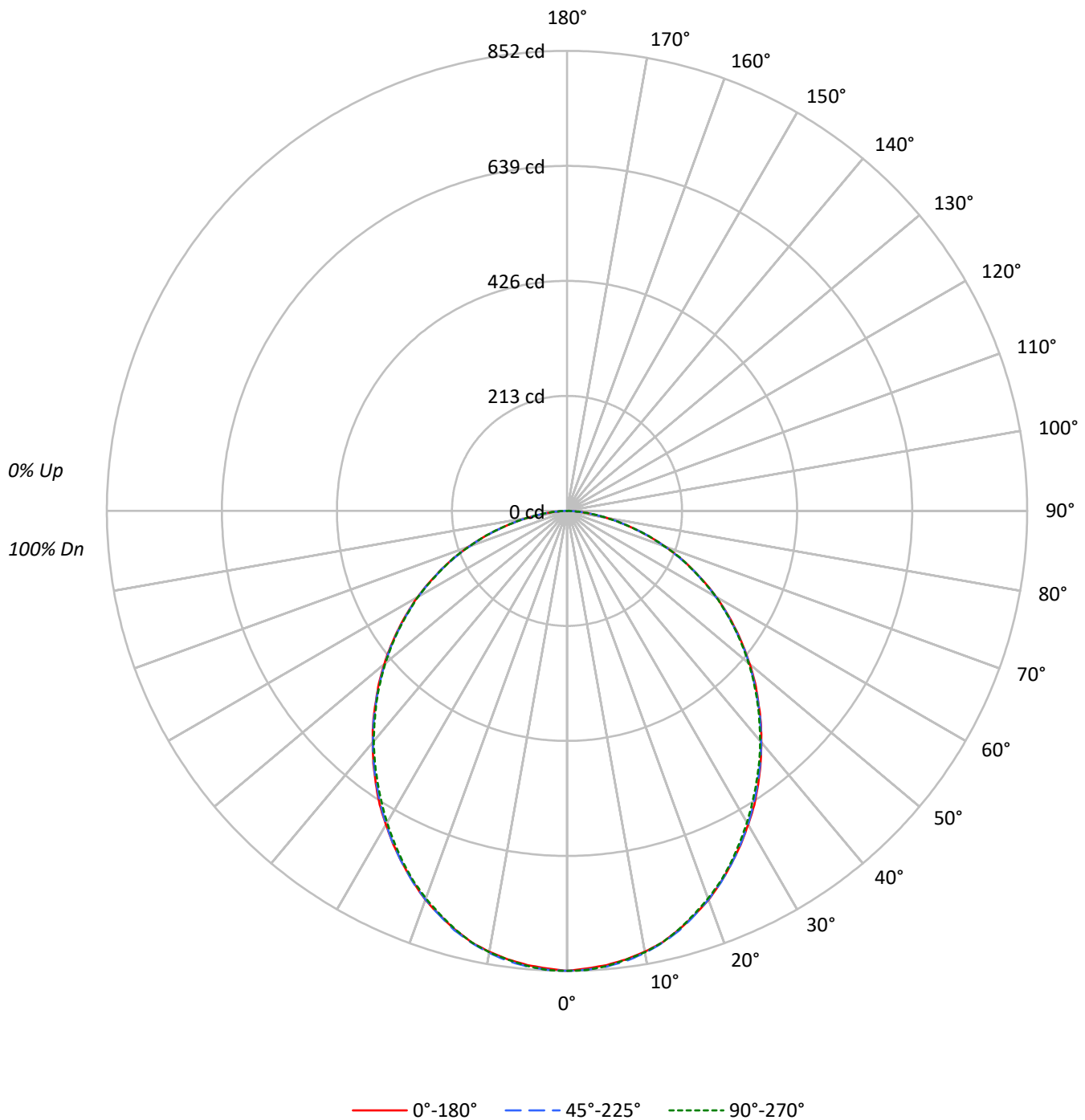
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2176.2 lumens
Efficiency: N/A
Efficacy: 102.2 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 (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°	2292	2292	2292
5°	2280	2288	2285
10°	2265	2271	2268
15°	2235	2240	2234
20°	2195	2193	2187
25°	2140	2140	2133
30°	2084	2082	2071
35°	2027	2021	2010
40°	1965	1963	1955
45°	1905	1903	1896
50°	1850	1842	1837
55°	1786	1777	1777
60°	1719	1713	1716
65°	1629	1633	1622
70°	1522	1514	1514
75°	1358	1364	1364
80°	1148	1148	1158
85°	871	871	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	3.7
10°-20°	226.3	10.4
20°-30°	331.9	15.2
30°-40°	385.0	17.7
40°-50°	386.0	17.7
50°-60°	339.5	15.6
60°-70°	253.3	11.6
70°-80°	139.4	6.4
80°-90°	34.5	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°	638.5	29.3
0°-40°	1023.5	47.0
0°-60°	1748.9	80.4
0°-90°	2176.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2176.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	852	852	852	852	852	
5°	844	847	847	847	846	80
15°	802	806	804	803	802	226
25°	721	724	721	720	718	332
35°	617	618	615	614	612	386
45°	501	502	500	499	498	387
55°	381	381	379	379	379	340
65°	256	256	256	255	255	254
75°	131	131	131	130	131	139
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°	851.8	851.8	851.8	851.8	851.8
2.5°	848.3	851.2	850.6	852.4	851.2
5°	844.2	847.1	847.1	847.1	845.9
7.5°	837.7	840.6	840.6	840.6	838.3
10°	828.9	831.8	831.2	831.2	830.0
12.5°	818.3	820.0	818.9	818.9	818.3
15°	802.4	805.9	804.2	803.0	801.8
17.5°	784.7	788.3	785.3	784.7	783.0
20°	766.5	768.9	765.9	765.9	763.6
22.5°	744.2	746.5	744.7	743.6	742.4
25°	720.6	723.6	720.6	720.0	718.3
27.5°	696.5	698.9	695.9	693.6	692.4
30°	670.6	672.4	670.0	668.3	666.5
32.5°	645.3	645.3	643.0	641.2	638.9
35°	617.1	617.7	615.3	613.6	611.8
37.5°	588.9	590.0	587.7	585.9	584.7
40°	559.4	560.6	558.9	557.1	556.5
42.5°	531.2	531.2	530.0	528.3	527.1
45°	500.6	502.4	500.0	499.4	498.3
47.5°	472.4	472.4	470.0	468.8	468.8
50°	441.8	443.0	440.0	439.4	438.8
52.5°	411.2	410.6	410.0	409.4	408.8
55°	380.6	381.2	378.8	379.4	378.8
57.5°	350.0	349.4	348.8	348.3	347.7
60°	319.4	318.8	318.3	317.7	318.8
62.5°	287.7	288.3	286.5	288.3	285.9
65°	255.9	255.9	256.5	255.3	254.7
67.5°	225.3	225.3	224.1	224.1	226.5
70°	193.5	194.1	192.4	194.7	192.4
72.5°	162.4	162.9	162.4	161.8	162.9
75°	130.6	131.2	131.2	130.0	131.2
77.5°	101.8	102.4	101.8	101.2	101.8
80°	74.1	74.7	74.1	73.5	74.7
82.5°	49.4	50.0	49.4	49.4	50.0
85°	28.2	28.8	28.2	28.2	28.8
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)