

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: P708922

Luminaire Tested: **24APR-X-X-UNV-NL940**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708922
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-X-X-UNV-NL940
Description: ArcMed Patient Recessed 2x4 Fixture NIGHT Light
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

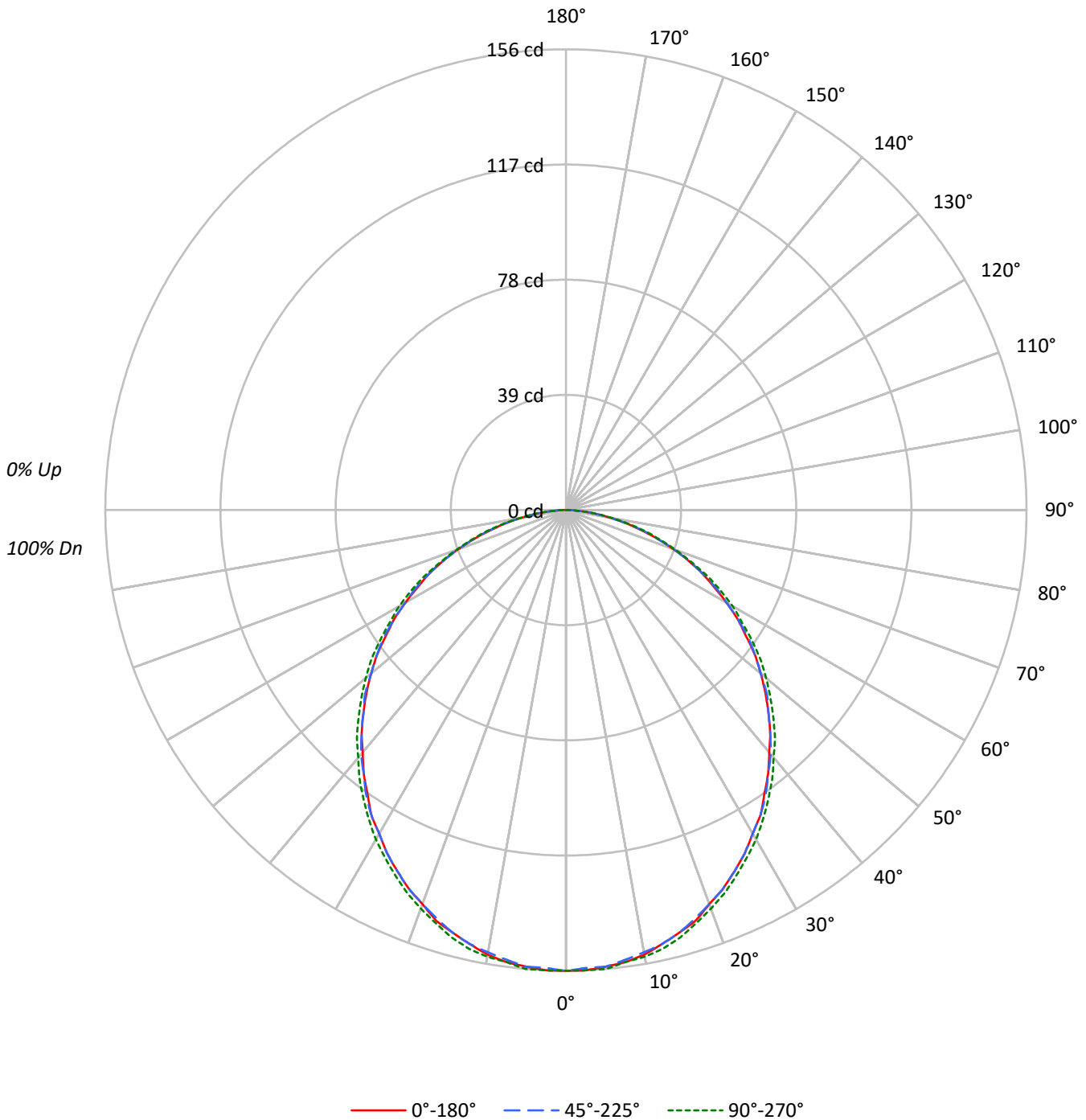
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 423.0 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 6
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				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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84	84	84	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70	70	70	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59	59	59	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50	50	50	50
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44	44	44	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38	38	38	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34	34	34	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30	30	30	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27	27	27	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26	25	25	25	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	210	210	210
5°	210	210	211
10°	209	208	210
15°	206	206	209
20°	203	203	206
25°	200	200	203
30°	197	197	200
35°	193	194	196
40°	188	190	192
45°	185	185	189
50°	180	180	185
55°	175	177	180
60°	169	169	175
65°	163	163	168
70°	153	153	156
75°	137	141	145
80°	120	120	126
85°	96	96	96



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.7	3.5
10°-20°	41.9	9.9
20°-30°	62.5	14.8
30°-40°	73.9	17.5
40°-50°	75.5	17.8
50°-60°	67.5	15.9
60°-70°	51.0	12.0
70°-80°	28.7	6.8
80°-90°	7.4	1.7
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°	119.1	28.2
0°-40°	193.0	45.6
0°-60°	336.0	79.4
0°-90°	423.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	423.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	156	156	156	156	156	
5°	155	156	155	155	156	15
15°	148	148	148	149	150	42
25°	135	136	135	136	137	62
35°	117	118	118	119	120	73
45°	97	98	97	98	99	75
55°	74	75	75	76	77	67
65°	51	51	51	52	53	50
75°	26	27	27	27	28	28
85°	6	6	6	6	6	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	156.0	156.0	156.0	156.0	156.0
2.5°	156.0	156.0	155.2	156.0	156.0
5°	155.2	156.0	155.2	155.2	156.0
7.5°	154.4	154.4	153.6	153.6	154.4
10°	152.9	152.9	152.1	152.9	153.6
12.5°	150.5	150.5	150.5	151.3	152.1
15°	148.2	148.2	148.2	149.0	149.8
17.5°	145.9	145.9	145.1	145.9	146.7
20°	142.0	142.8	142.0	142.8	143.6
22.5°	138.9	139.7	138.9	139.7	140.4
25°	135.0	135.8	135.0	135.8	136.6
27.5°	131.1	131.9	131.1	131.9	132.7
30°	126.5	127.3	126.5	128.0	128.8
32.5°	122.6	122.6	122.6	123.4	124.2
35°	117.2	117.9	117.9	118.7	119.5
37.5°	112.5	112.5	112.5	114.1	114.8
40°	107.1	107.9	107.9	108.6	109.4
42.5°	102.4	102.4	102.4	104.0	104.8
45°	97.0	97.8	97.0	98.5	99.3
47.5°	91.6	92.3	92.3	93.1	93.9
50°	86.1	86.1	86.1	87.7	88.5
52.5°	80.7	80.7	80.7	82.3	83.0
55°	74.5	75.3	75.3	76.0	76.8
57.5°	69.1	69.1	69.1	69.8	70.6
60°	62.9	63.6	62.9	64.4	65.2
62.5°	56.6	57.4	57.4	58.2	59.0
65°	51.2	51.2	51.2	52.0	52.8
67.5°	45.0	45.0	45.0	45.8	45.8
70°	38.8	38.8	38.8	39.6	39.6
72.5°	32.6	32.6	32.6	33.4	33.4
75°	26.4	27.2	27.2	27.2	27.9
77.5°	21.0	21.0	21.0	21.7	21.7
80°	15.5	15.5	15.5	16.3	16.3
82.5°	10.9	10.1	10.9	10.9	10.9
85°	6.2	6.2	6.2	6.2	6.2
87.5°	2.3	2.3	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)