

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: P708920

Luminaire Tested: **24APR-X-X-UNV-NL930**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708920
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-NL930
Description: ArcMed Patient Recessed 2x4 Fixture NIGHT Light
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

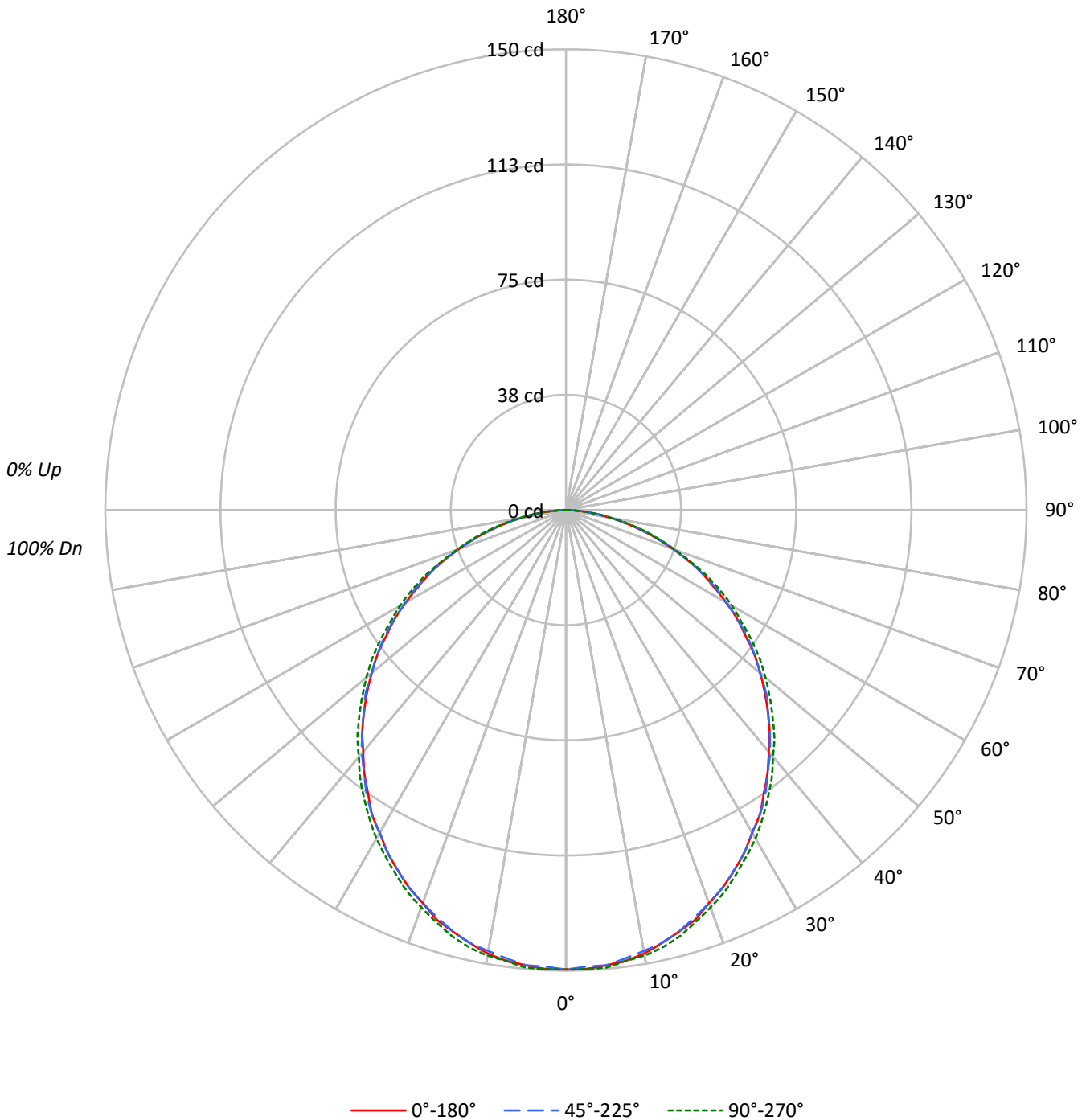
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 405.6 lumens
Efficiency: N/A
Efficacy: 67.6 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	102	102	102	100
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	53	50
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	46	46	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	40	40	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	36	36	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	29	29	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	201	201	201
5°	201	201	202
10°	200	199	201
15°	198	198	200
20°	195	195	197
25°	192	192	194
30°	188	188	192
35°	185	186	188
40°	180	182	184
45°	177	177	181
50°	173	173	178
55°	167	169	173
60°	162	162	168
65°	156	156	161
70°	146	146	149
75°	132	135	139
80°	115	115	121
85°	93	93	93



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.1	3.5
10°-20°	40.2	9.9
20°-30°	59.9	14.8
30°-40°	70.9	17.5
40°-50°	72.4	17.8
50°-60°	64.7	15.9
60°-70°	48.9	12.1
70°-80°	27.5	6.8
80°-90°	7.1	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°	114.2	28.2
0°-40°	185.1	45.6
0°-60°	322.2	79.4
0°-90°	405.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	405.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	150	150	150	150	150	
5°	149	150	149	149	150	14
15°	142	142	142	143	144	40
25°	130	130	130	130	131	60
35°	112	113	113	114	115	70
45°	93	94	93	94	95	72
55°	71	72	72	73	74	64
65°	49	49	49	50	51	48
75°	25	26	26	26	27	27
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°	149.6	149.6	149.6	149.6	149.6
2.5°	149.6	149.6	148.8	149.6	149.6
5°	148.8	149.6	148.8	148.8	149.6
7.5°	148.1	148.1	147.3	147.3	148.1
10°	146.6	146.6	145.8	146.6	147.3
12.5°	144.4	144.4	144.4	145.1	145.8
15°	142.1	142.1	142.1	142.9	143.6
17.5°	139.9	139.9	139.1	139.9	140.6
20°	136.2	136.9	136.2	136.9	137.7
22.5°	133.2	133.9	133.2	133.9	134.7
25°	129.5	130.2	129.5	130.2	131.0
27.5°	125.8	126.5	125.8	126.5	127.2
30°	121.3	122.0	121.3	122.8	123.5
32.5°	117.6	117.6	117.6	118.3	119.1
35°	112.4	113.1	113.1	113.8	114.6
37.5°	107.9	107.9	107.9	109.4	110.1
40°	102.7	103.4	103.4	104.2	104.9
42.5°	98.2	98.2	98.2	99.7	100.5
45°	93.0	93.8	93.0	94.5	95.2
47.5°	87.8	88.5	88.5	89.3	90.0
50°	82.6	82.6	82.6	84.1	84.8
52.5°	77.4	77.4	77.4	78.9	79.6
55°	71.4	72.2	72.2	72.9	73.7
57.5°	66.2	66.2	66.2	67.0	67.7
60°	60.3	61.0	60.3	61.8	62.5
62.5°	54.3	55.1	55.1	55.8	56.6
65°	49.1	49.1	49.1	49.9	50.6
67.5°	43.2	43.2	43.2	43.9	43.9
70°	37.2	37.2	37.2	37.9	37.9
72.5°	31.3	31.3	31.3	32.0	32.0
75°	25.3	26.0	26.0	26.0	26.8
77.5°	20.1	20.1	20.1	20.8	20.8
80°	14.9	14.9	14.9	15.6	15.6
82.5°	10.4	9.7	10.4	10.4	10.4
85°	6.0	6.0	6.0	6.0	6.0
87.5°	2.2	2.2	2.2	2.2	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)