

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: P708918

Luminaire Tested: **24APR-X-X-UNV-NL840**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708918
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-NL840
Description: ArcMed Patient Recessed 2x4 Fixture NIGHT Light
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

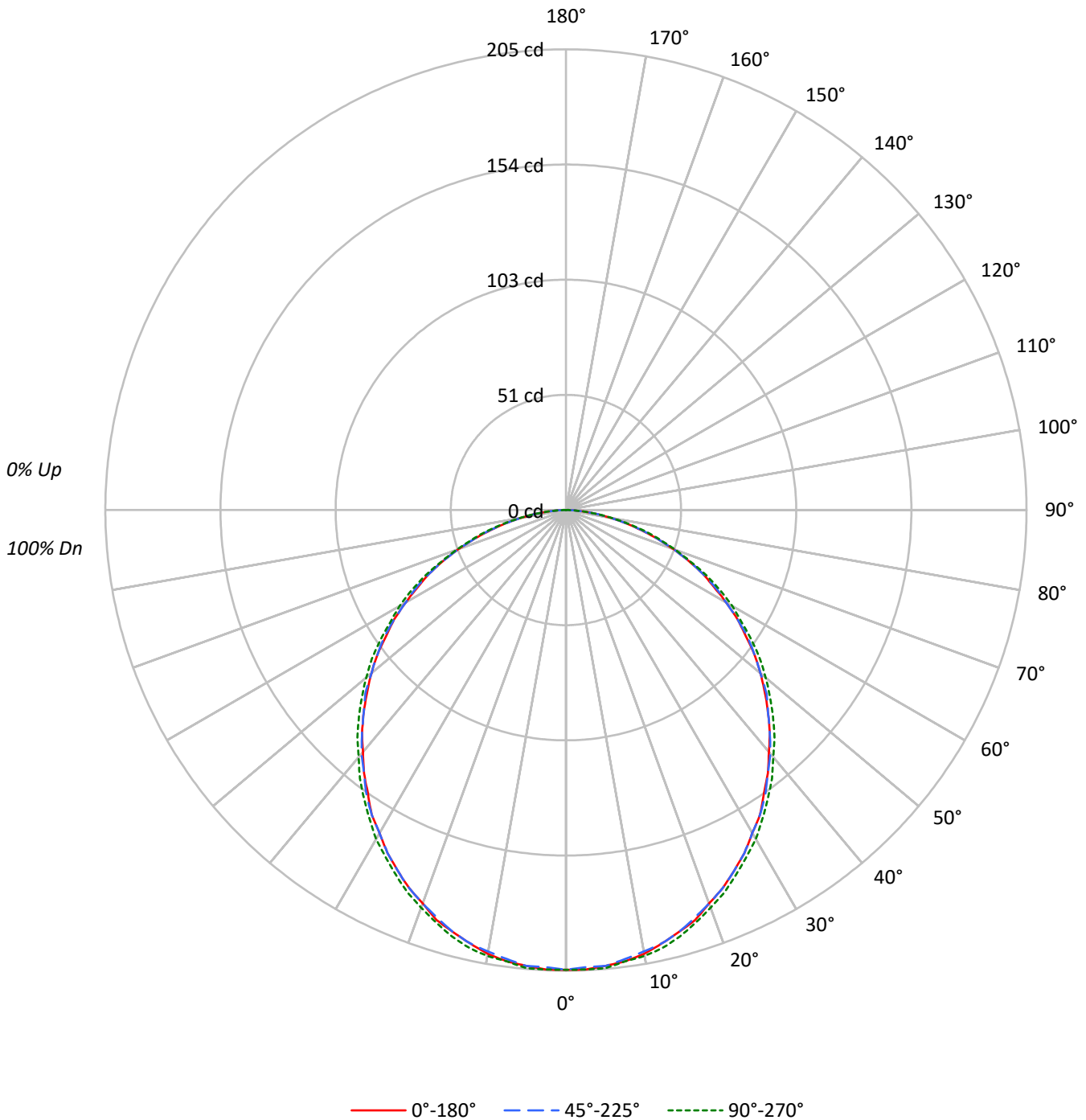
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 554.8 lumens
Efficiency: N/A
Efficacy: 92.5 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	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	47	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	39	32	27	38	31	27	37	31	26	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	275	275	275
5°	275	275	276
10°	274	273	275
15°	271	271	274
20°	267	267	270
25°	263	263	266
30°	258	258	263
35°	252	254	257
40°	247	249	252
45°	242	242	248
50°	237	237	243
55°	229	232	236
60°	222	222	230
65°	214	214	220
70°	200	200	204
75°	180	185	190
80°	158	158	166
85°	125	125	125



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.3	3.5
10°-20°	54.9	9.9
20°-30°	82.0	14.8
30°-40°	97.0	17.5
40°-50°	99.0	17.8
50°-60°	88.5	15.9
60°-70°	66.8	12.0
70°-80°	37.6	6.8
80°-90°	9.7	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°	156.2	28.2
0°-40°	253.2	45.6
0°-60°	440.7	79.4
0°-90°	554.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	554.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	205	205	205	205	205	
5°	204	205	204	204	205	19
15°	194	194	194	195	196	55
25°	177	178	177	178	179	82
35°	154	155	155	156	157	96
45°	127	128	127	129	130	98
55°	98	99	99	100	101	88
65°	67	67	67	68	69	66
75°	35	36	36	36	37	37
85°	8	8	8	8	8	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	204.6	204.6	204.6	204.6	204.6
2.5°	204.6	204.6	203.6	204.6	204.6
5°	203.6	204.6	203.6	203.6	204.6
7.5°	202.5	202.5	201.5	201.5	202.5
10°	200.5	200.5	199.5	200.5	201.5
12.5°	197.5	197.5	197.5	198.5	199.5
15°	194.4	194.4	194.4	195.4	196.4
17.5°	191.3	191.3	190.3	191.3	192.4
20°	186.3	187.3	186.3	187.3	188.3
22.5°	182.2	183.2	182.2	183.2	184.2
25°	177.1	178.1	177.1	178.1	179.1
27.5°	172.0	173.0	172.0	173.0	174.0
30°	165.9	166.9	165.9	167.9	169.0
32.5°	160.8	160.8	160.8	161.8	162.8
35°	153.7	154.7	154.7	155.7	156.7
37.5°	147.6	147.6	147.6	149.6	150.6
40°	140.5	141.5	141.5	142.5	143.5
42.5°	134.3	134.3	134.3	136.4	137.4
45°	127.2	128.2	127.2	129.3	130.3
47.5°	120.1	121.1	121.1	122.1	123.2
50°	113.0	113.0	113.0	115.0	116.0
52.5°	105.8	105.8	105.8	107.9	108.9
55°	97.7	98.7	98.7	99.7	100.8
57.5°	90.6	90.6	90.6	91.6	92.6
60°	82.4	83.5	82.4	84.5	85.5
62.5°	74.3	75.3	75.3	76.3	77.4
65°	67.2	67.2	67.2	68.2	69.2
67.5°	59.0	59.0	59.0	60.0	60.0
70°	50.9	50.9	50.9	51.9	51.9
72.5°	42.7	42.7	42.7	43.8	43.8
75°	34.6	35.6	35.6	35.6	36.6
77.5°	27.5	27.5	27.5	28.5	28.5
80°	20.4	20.4	20.4	21.4	21.4
82.5°	14.2	13.2	14.2	14.2	14.2
85°	8.1	8.1	8.1	8.1	8.1
87.5°	3.1	3.1	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)