

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: P709027

Luminaire Tested: **24APR-58-138L930-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P709027
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-58-138L930-UNV
Description: ArcMed Patient Recessed 2x4 Fixture Ambient and Exam Light
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

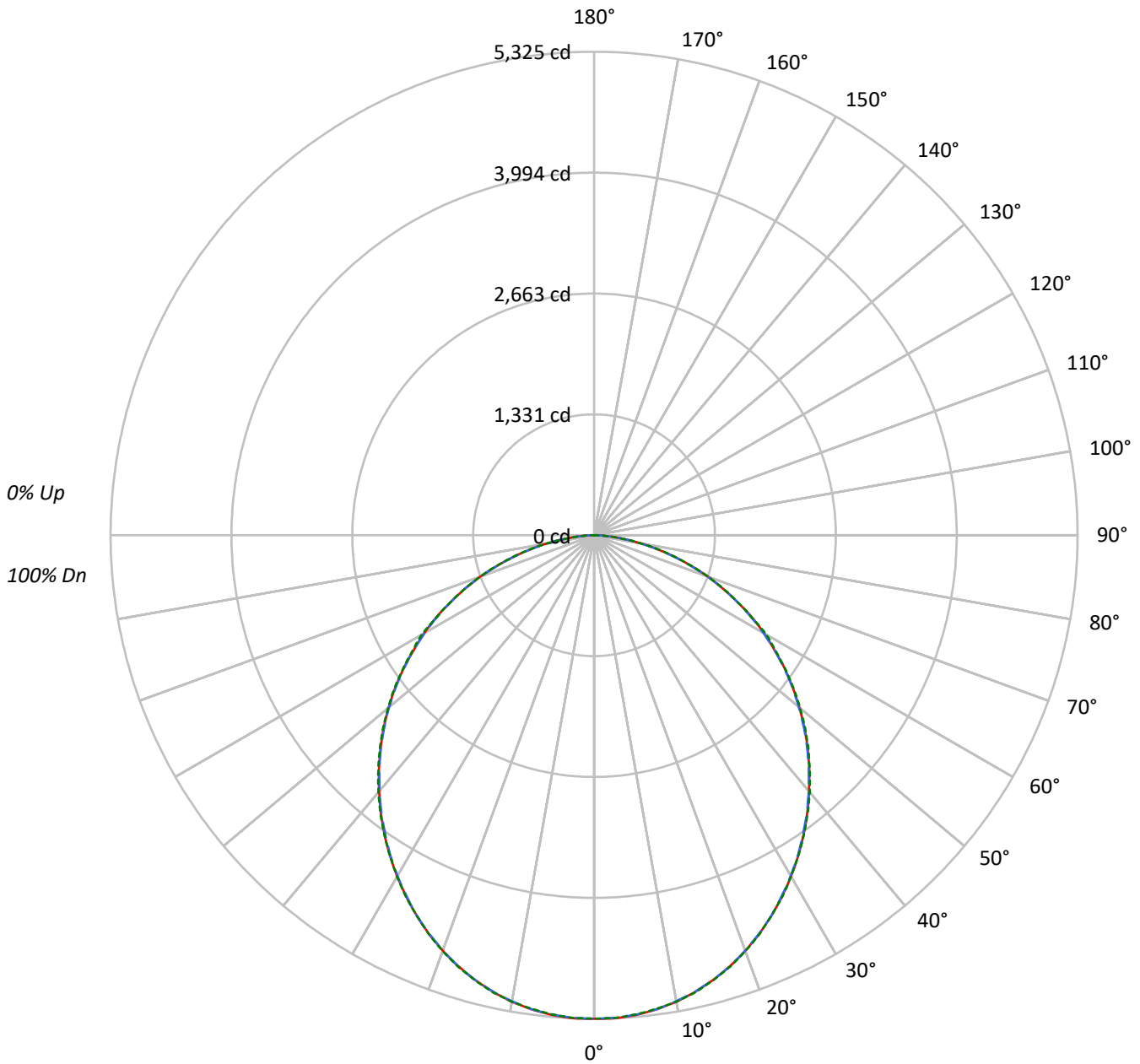
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14370.9 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 155.4
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



— 0°-180° - - 45°-225° - - - 90°-270°



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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	92	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	73	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	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	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	40	34	29	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7165	7165	7165
5°	7165	7159	7154
10°	7128	7122	7127
15°	7061	7061	7069
20°	6974	6969	6980
25°	6865	6862	6862
30°	6741	6730	6741
35°	6609	6591	6617
40°	6469	6456	6490
45°	6331	6318	6352
50°	6179	6163	6203
55°	6011	5995	6031
60°	5812	5798	5900
65°	5548	5549	5564
70°	5243	5215	5249
75°	4783	4746	4778
80°	4129	4078	4106
85°	3222	3189	3182



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.3	3.5
10°-20°	1429.3	9.9
20°-30°	2128.7	14.8
30°-40°	2514.9	17.5
40°-50°	2565.6	17.9
50°-60°	2289.2	15.9
60°-70°	1725.9	12.0
70°-80°	967.7	6.7
80°-90°	246.2	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°	4061.3	28.3
0°-40°	6576.3	45.8
0°-60°	11431.1	79.5
0°-90°	14370.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14370.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5325	5325	5325	5325	5325	
5°	5305	5303	5300	5301	5297	504
15°	5069	5066	5069	5073	5075	1429
25°	4624	4618	4622	4626	4622	2130
35°	4024	4018	4013	4025	4029	2517
45°	3327	3325	3320	3330	3338	2566
55°	2562	2557	2556	2563	2571	2289
65°	1742	1734	1743	1748	1748	1729
75°	920	904	913	908	919	974
85°	209	201	207	206	206	250
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5325.2	5325.2	5325.2	5325.2	5325.2
2.5°	5325.2	5322.7	5320.6	5320.1	5321.1
5°	5305.3	5302.7	5300.2	5301.2	5297.1
7.5°	5266.9	5267.4	5265.4	5265.9	5261.3
10°	5217.3	5214.7	5212.7	5217.3	5216.8
12.5°	5150.3	5145.7	5147.7	5154.9	5155.4
15°	5069.0	5065.9	5069.0	5072.6	5074.6
17.5°	4976.4	4973.9	4977.4	4977.9	4982.0
20°	4870.5	4867.5	4867.5	4872.6	4874.6
22.5°	4753.4	4748.8	4749.8	4753.4	4756.0
25°	4624.0	4618.4	4622.0	4626.1	4622.0
27.5°	4484.4	4481.3	4477.7	4482.9	4489.5
30°	4338.6	4332.5	4332.0	4335.6	4339.1
32.5°	4184.7	4177.5	4177.5	4182.1	4185.2
35°	4023.6	4018.0	4012.8	4024.6	4028.7
37.5°	3857.4	3850.7	3850.2	3857.4	3864.0
40°	3683.0	3677.3	3675.8	3688.1	3695.2
42.5°	3507.0	3503.4	3499.9	3512.1	3517.8
45°	3327.0	3324.9	3320.3	3330.1	3338.2
47.5°	3141.8	3135.2	3133.7	3144.9	3153.1
50°	2952.1	2949.5	2944.4	2954.6	2963.3
52.5°	2759.8	2756.7	2753.1	2762.3	2771.5
55°	2562.4	2556.7	2555.7	2563.4	2571.1
57.5°	2356.8	2352.2	2359.3	2366.5	2372.6
60°	2159.9	2149.1	2154.7	2162.9	2192.6
62.5°	1961.9	1943.0	1947.1	1969.6	1956.8
65°	1742.5	1733.8	1743.0	1748.1	1747.6
67.5°	1536.9	1526.7	1540.5	1536.4	1542.5
70°	1332.8	1314.9	1325.7	1327.2	1334.4
72.5°	1122.1	1106.8	1116.0	1120.6	1125.2
75°	920.1	904.2	912.9	907.8	919.1
77.5°	719.1	709.4	715.0	718.6	727.3
80°	532.9	522.2	526.3	526.8	529.9
82.5°	361.1	352.9	353.9	363.1	359.5
85°	208.7	201.0	206.6	206.1	206.1
87.5°	81.3	75.2	80.8	80.3	79.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)