

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: P709037

Luminaire Tested: **24APR-58-138L940-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P709037
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-58-138L940-UNV
Description: ArcMed Patient Recessed 2x4 Fixture Ambient and Exam Light
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

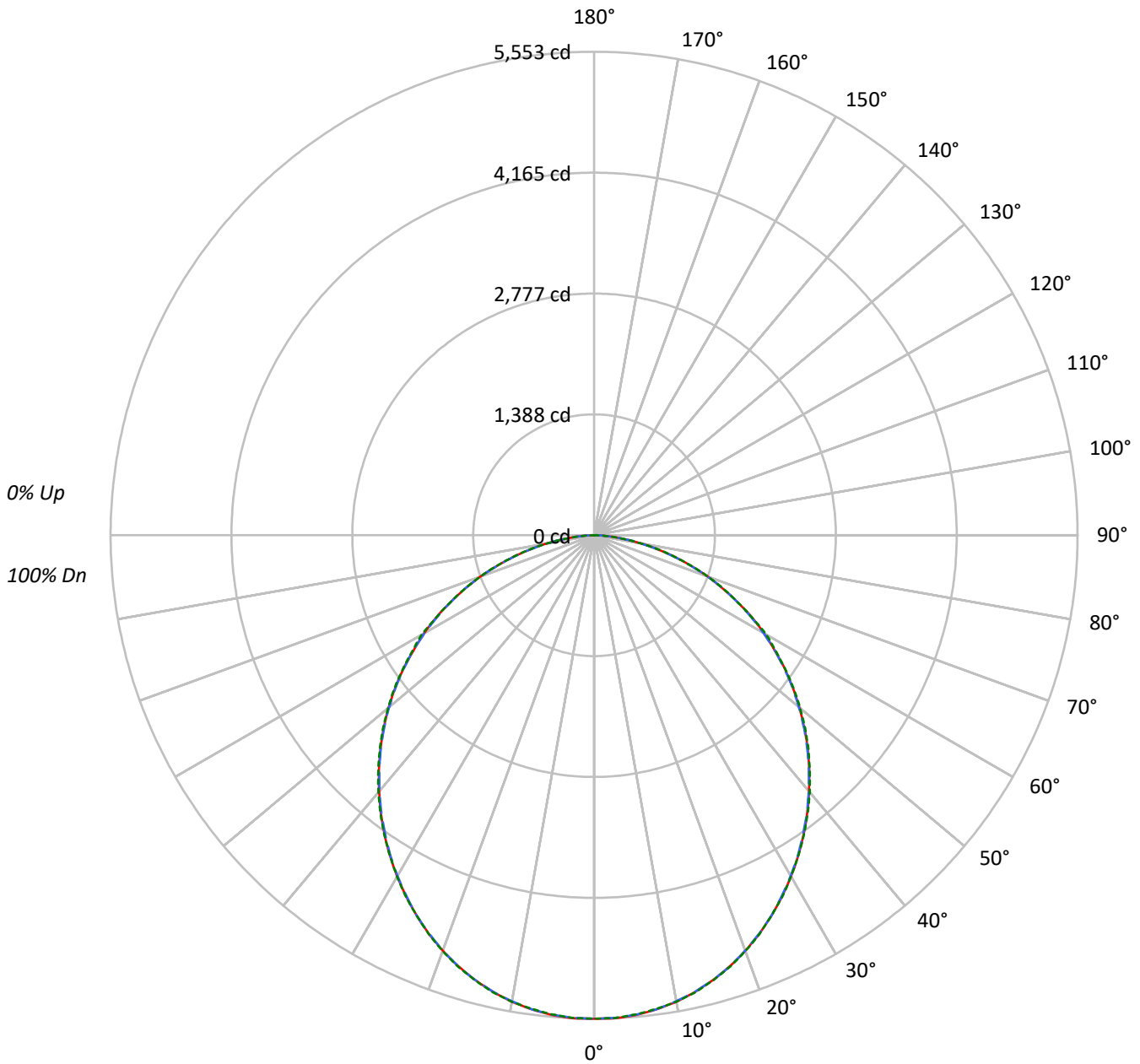
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14986.1 lumens
Efficiency: N/A
Efficacy: 96.4 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	
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°	7472	7472	7472
5°	7472	7465	7461
10°	7433	7427	7433
15°	7363	7363	7371
20°	7272	7268	7278
25°	7159	7156	7156
30°	7029	7018	7030
35°	6892	6873	6901
40°	6746	6733	6768
45°	6602	6588	6624
50°	6444	6427	6468
55°	6268	6252	6289
60°	6061	6047	6153
65°	5785	5787	5802
70°	5468	5438	5474
75°	4988	4949	4982
80°	4306	4252	4281
85°	3359	3327	3318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.8	3.5
10°-20°	1490.5	9.9
20°-30°	2219.8	14.8
30°-40°	2622.6	17.5
40°-50°	2675.5	17.9
50°-60°	2387.2	15.9
60°-70°	1799.8	12.0
70°-80°	1009.1	6.7
80°-90°	256.8	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°	4235.2	28.3
0°-40°	6857.8	45.8
0°-60°	11920.5	79.5
0°-90°	14986.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14986.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5553	5553	5553	5553	5553	
5°	5532	5530	5527	5528	5524	525
15°	5286	5283	5286	5290	5292	1491
25°	4822	4816	4820	4824	4820	2221
35°	4196	4190	4185	4197	4201	2625
45°	3469	3467	3462	3473	3481	2676
55°	2672	2666	2665	2673	2681	2387
65°	1817	1808	1818	1823	1822	1803
75°	960	943	952	947	958	1016
85°	218	210	216	215	215	260
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5553.2	5553.2	5553.2	5553.2	5553.2
2.5°	5553.2	5550.5	5548.4	5547.9	5548.9
5°	5532.4	5529.7	5527.1	5528.1	5523.9
7.5°	5492.4	5492.9	5490.8	5491.3	5486.5
10°	5440.7	5438.0	5435.9	5440.7	5440.1
12.5°	5370.8	5366.0	5368.1	5375.6	5376.1
15°	5286.0	5282.8	5286.0	5289.7	5291.9
17.5°	5189.5	5186.8	5190.5	5191.1	5195.3
20°	5079.1	5075.9	5075.9	5081.2	5083.3
22.5°	4956.9	4952.1	4953.2	4956.9	4959.6
25°	4822.0	4816.1	4819.9	4824.1	4819.9
27.5°	4676.4	4673.2	4669.4	4674.8	4681.7
30°	4524.4	4518.0	4517.4	4521.2	4524.9
32.5°	4363.8	4356.4	4356.4	4361.2	4364.4
35°	4195.8	4190.0	4184.6	4196.9	4201.2
37.5°	4022.5	4015.6	4015.0	4022.5	4029.4
40°	3840.6	3834.8	3833.2	3846.0	3853.4
42.5°	3657.2	3653.4	3649.7	3662.5	3668.4
45°	3469.4	3467.3	3462.5	3472.6	3481.2
47.5°	3276.3	3269.4	3267.8	3279.5	3288.1
50°	3078.5	3075.8	3070.5	3081.1	3090.2
52.5°	2877.9	2874.7	2871.0	2880.6	2890.2
55°	2672.1	2666.2	2665.1	2673.1	2681.1
57.5°	2457.7	2452.9	2460.3	2467.8	2474.2
60°	2252.3	2241.1	2247.0	2255.5	2286.5
62.5°	2045.9	2026.2	2030.4	2053.9	2040.6
65°	1817.1	1808.0	1817.6	1823.0	1822.4
67.5°	1602.7	1592.0	1606.4	1602.2	1608.6
70°	1389.9	1371.2	1382.4	1384.0	1391.5
72.5°	1170.2	1154.2	1163.8	1168.6	1173.4
75°	959.5	943.0	952.0	946.7	958.4
77.5°	749.9	739.8	745.6	749.4	758.4
80°	555.7	544.5	548.8	549.3	552.5
82.5°	376.5	368.0	369.1	378.7	374.9
85°	217.6	209.6	215.5	214.9	214.9
87.5°	84.8	78.4	84.3	83.7	82.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)