

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P1499262

Luminaire Tested: MAE-G-4-120-2HI-STD-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2HI-STD-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

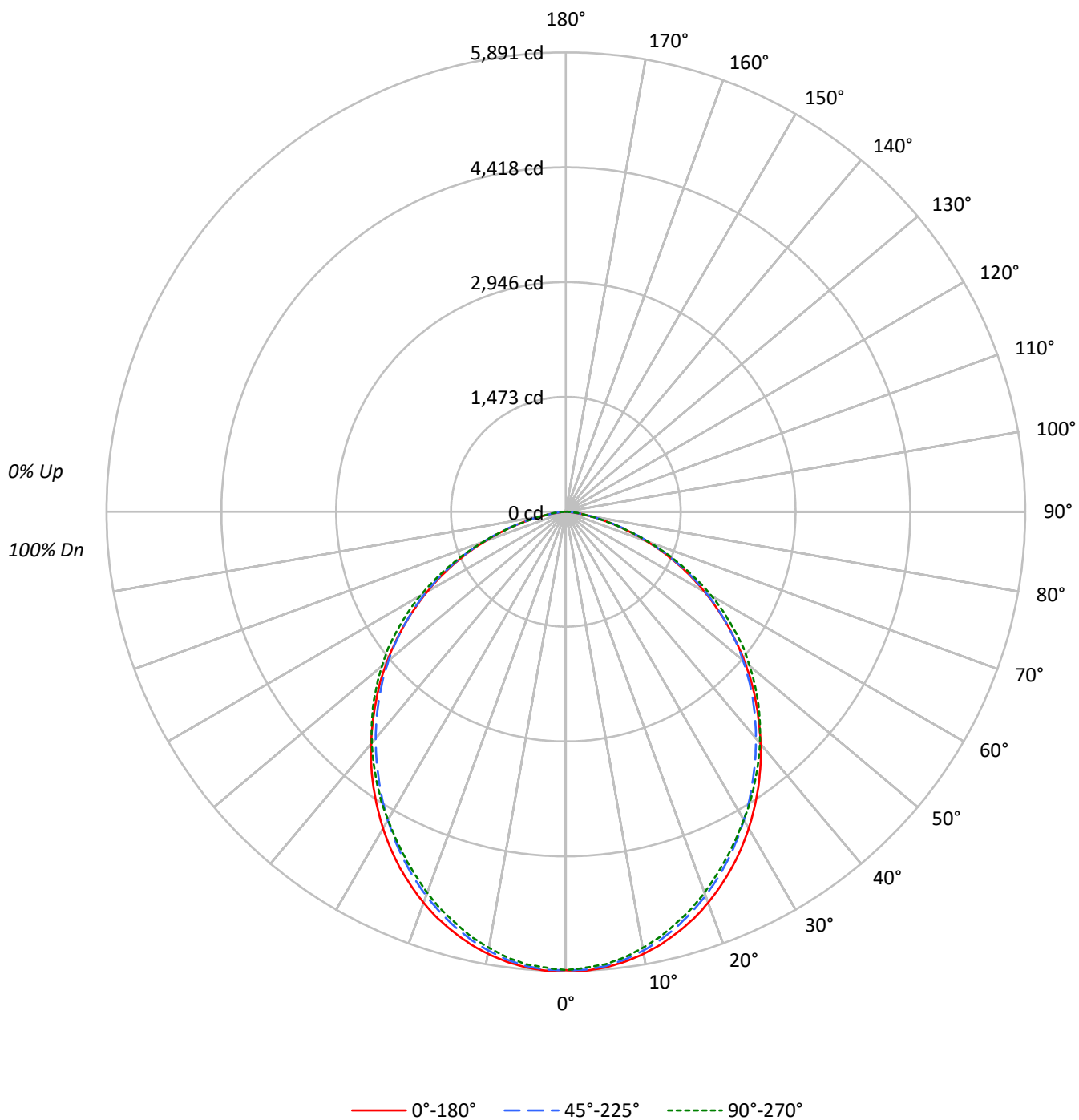
Lumens per Lamp: N/A
Luminaire Lumens: 14373.0 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 157.1
Input Voltage (V): NR
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: 24 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
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	88	88	86
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7910	7910	7910
5°	7922	7898	7866
10°	7866	7810	7759
15°	7768	7671	7612
20°	7640	7500	7443
25°	7478	7306	7255
30°	7286	7094	7088
35°	7070	6872	6945
40°	6822	6663	6798
45°	6557	6448	6643
50°	6267	6213	6442
55°	5934	5932	6179
60°	5534	5579	5813
65°	5027	5100	5230
70°	4335	4426	4446
75°	3448	3540	3426
80°	2325	2388	2313
85°	1183	1536	1925

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6643 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.2	3.8
10°-20°	1551.5	10.8
20°-30°	2273.0	15.8
30°-40°	2641.2	18.4
40°-50°	2641.5	18.4
50°-60°	2278.4	15.9
60°-70°	1585.2	11.0
70°-80°	720.0	5.0
80°-90°	129.2	0.9
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°	4377.6	30.5
0°-40°	7018.8	48.8
0°-60°	11938.6	83.1
0°-90°	14373.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14373.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5879	5879	5879	5879	5879	
5°	5865	5843	5847	5817	5824	556
15°	5577	5540	5507	5460	5464	1572
25°	5037	4987	4921	4877	4887	2318
35°	4304	4242	4184	4195	4228	2690
45°	3446	3394	3389	3449	3491	2658
55°	2530	2492	2529	2603	2634	2259
65°	1579	1566	1602	1627	1643	1563
75°	663	661	681	665	659	714
85°	77	84	100	118	125	114
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5879.0	5879.0	5879.0	5879.0	5879.0
2.5°	5891.4	5869.9	5879.0	5855.8	5852.4
5°	5865.4	5842.6	5847.4	5816.8	5823.7
7.5°	5820.2	5794.7	5792.1	5758.2	5765.1
10°	5757.3	5726.8	5716.1	5675.0	5679.0
12.5°	5676.9	5643.3	5622.5	5575.9	5583.0
15°	5576.6	5539.9	5507.2	5459.7	5464.3
17.5°	5466.5	5427.8	5379.8	5329.8	5341.0
20°	5335.8	5294.4	5237.9	5185.8	5198.4
22.5°	5191.4	5144.9	5087.0	5036.0	5044.5
25°	5037.3	4986.8	4921.2	4876.7	4886.9
27.5°	4869.7	4813.6	4748.3	4709.9	4725.3
30°	4689.6	4631.5	4566.3	4541.5	4562.3
32.5°	4500.0	4441.3	4379.1	4373.0	4402.6
35°	4304.2	4241.7	4183.7	4195.4	4228.2
37.5°	4100.4	4039.4	3990.3	4019.2	4053.5
40°	3884.2	3828.3	3793.4	3834.1	3870.4
42.5°	3667.3	3614.2	3593.5	3646.2	3685.5
45°	3445.8	3393.6	3388.6	3449.3	3491.2
47.5°	3226.4	3173.0	3182.1	3249.7	3287.3
50°	2994.1	2948.4	2968.2	3039.8	3077.4
52.5°	2761.1	2719.1	2750.5	2826.3	2870.5
55°	2529.8	2492.0	2528.6	2602.9	2634.1
57.5°	2292.5	2264.7	2305.0	2370.0	2399.9
60°	2056.4	2031.4	2073.1	2132.3	2160.2
62.5°	1817.7	1797.3	1839.8	1886.4	1902.3
65°	1578.9	1566.5	1601.8	1626.9	1642.8
67.5°	1344.9	1332.2	1365.6	1386.7	1390.7
70°	1102.0	1097.4	1125.1	1133.6	1130.1
72.5°	879.4	873.0	894.8	891.7	883.8
75°	663.3	661.4	680.9	665.2	659.1
77.5°	467.0	473.9	478.5	464.7	459.8
80°	300.0	311.1	308.2	303.2	298.5
82.5°	167.8	176.2	178.1	196.0	203.1
85°	76.6	84.3	99.5	117.6	124.7
87.5°	25.9	32.3	41.6	44.4	41.9
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	18.11	19.69	18.48	20.01	20.32	18.43	20.01	18.79	20.33	20.64
	3H	19.57	20.99	19.95	21.32	21.68	19.86	21.28	20.23	21.61	21.97
	4H	19.99	21.33	20.39	21.68	22.05	20.25	21.58	20.64	21.93	22.31
	6H	20.19	21.43	20.61	21.80	22.19	20.42	21.66	20.83	22.02	22.42
	8H	20.22	21.40	20.65	21.79	22.19	20.46	21.64	20.88	22.02	22.42
	12H	20.22	21.35	20.65	21.73	22.16	20.48	21.60	20.91	21.98	22.41
4H	2H	18.68	20.02	19.08	20.37	20.74	18.94	20.28	19.34	20.62	21.00
	3H	20.32	21.43	20.73	21.83	22.23	20.55	21.66	20.96	22.06	22.46
	4H	20.82	21.82	21.25	22.24	22.67	21.03	22.03	21.46	22.44	22.88
	6H	21.10	21.97	21.56	22.41	22.87	21.28	22.15	21.73	22.59	23.05
	8H	21.14	21.95	21.60	22.40	22.86	21.33	22.14	21.79	22.59	23.05
	12H	21.15	21.88	21.63	22.36	22.83	21.37	22.10	21.85	22.57	23.04
8H	4H	21.00	21.82	21.47	22.26	22.72	21.19	22.00	21.65	22.44	22.91
	6H	21.34	22.01	21.83	22.50	22.97	21.49	22.16	21.99	22.65	23.13
	8H	21.40	22.00	21.91	22.51	23.00	21.58	22.18	22.09	22.68	23.17
	12H	21.44	21.96	21.94	22.46	23.02	21.65	22.18	22.16	22.67	23.23
12H	4H	21.00	21.73	21.48	22.20	22.67	21.19	21.91	21.67	22.39	22.86
	6H	21.33	21.93	21.84	22.44	22.93	21.49	22.09	22.00	22.60	23.08
	8H	21.43	21.96	21.94	22.45	23.02	21.60	22.13	22.11	22.62	23.19