

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: P1499478

Luminaire Tested: MAE-G-4-120-3HI-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-3HI-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

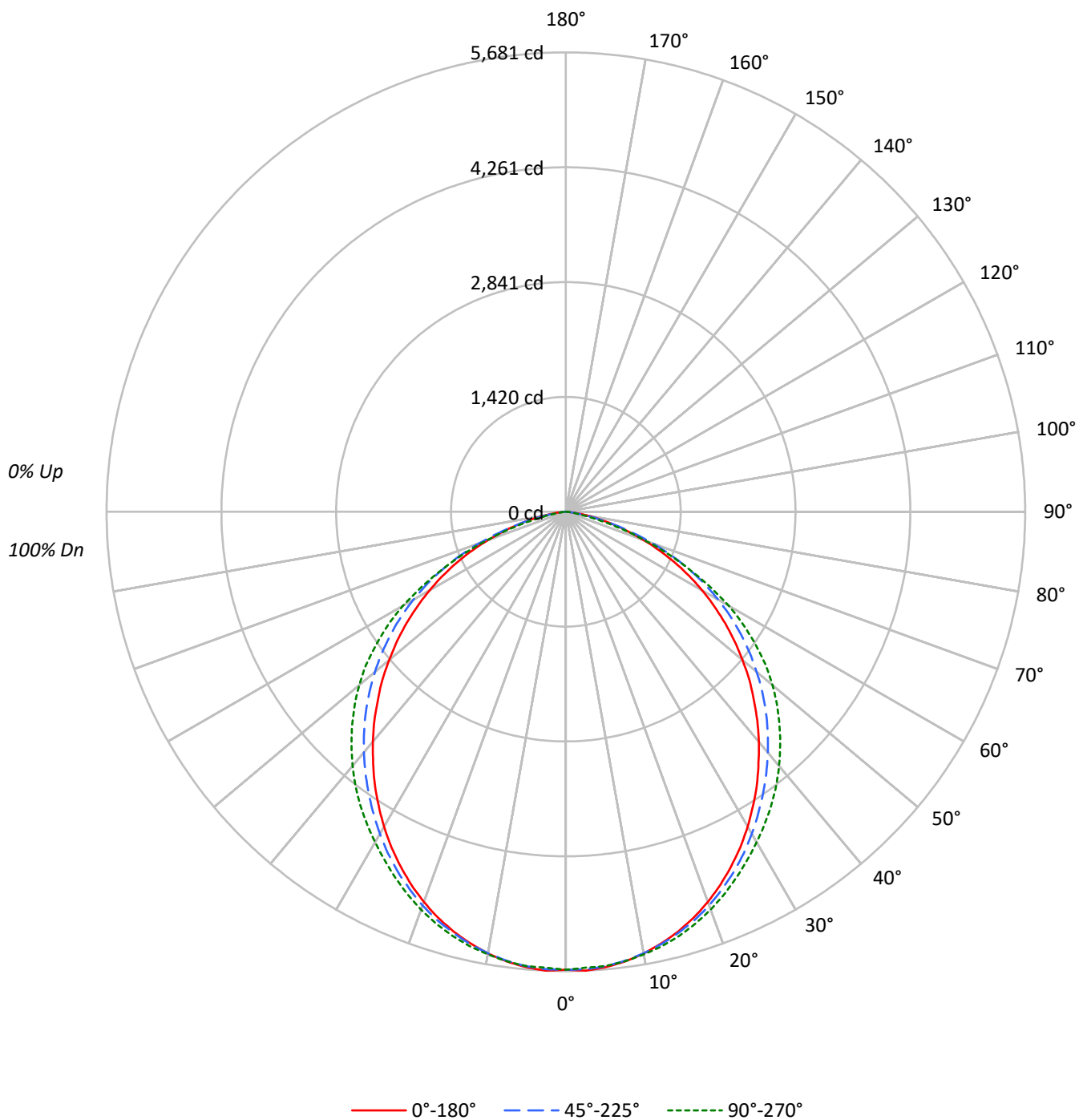
Lumens per Lamp: N/A
Luminaire Lumens: 14352.0 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132.9
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	102	98	107	103	100	96	99	96	93		95	93	91		92
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
5	78	65	56	50	76	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53
7	67	53	45	39	65	53	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	36	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7619	7619	7619
5°	7636	7620	7616
10°	7579	7576	7593
15°	7483	7506	7561
20°	7352	7420	7497
25°	7182	7297	7411
30°	6987	7146	7333
35°	6768	6983	7277
40°	6522	6825	7205
45°	6256	6657	7113
50°	5966	6451	6986
55°	5645	6201	6717
60°	5239	5859	6268
65°	4731	5344	5368
70°	4038	4487	4172
75°	3171	3274	2567
80°	2070	1684	993
85°	991	665	526

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7113 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.9	3.7
10°-20°	1518.6	10.6
20°-30°	2258.5	15.7
30°-40°	2661.4	18.5
40°-50°	2698.4	18.8
50°-60°	2351.3	16.4
60°-70°	1608.1	11.2
70°-80°	646.0	4.5
80°-90°	74.9	0.5
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°	4312.0	30.0
0°-40°	6973.4	48.6
0°-60°	12023.1	83.8
0°-90°	14352.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14352.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5663	5663	5663	5663	5663	
5°	5653	5619	5642	5635	5639	536
15°	5372	5348	5389	5411	5428	1514
25°	4838	4839	4915	4950	4992	2227
35°	4120	4138	4251	4356	4430	2574
45°	3288	3332	3498	3656	3738	2538
55°	2406	2457	2644	2810	2863	2148
65°	1486	1553	1678	1691	1686	1469
75°	610	651	630	541	494	655
85°	64	58	43	38	34	99
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5662.6	5662.6	5662.6	5662.6	5662.6
2.5°	5680.9	5642.9	5662.6	5658.6	5644.1
5°	5653.4	5619.2	5641.5	5635.1	5638.9
7.5°	5608.8	5577.5	5601.0	5599.8	5606.2
10°	5547.5	5515.9	5544.8	5550.1	5557.9
12.5°	5466.1	5440.1	5475.4	5485.8	5501.4
15°	5371.8	5348.4	5388.9	5411.2	5428.2
17.5°	5261.8	5242.2	5294.5	5315.7	5339.1
20°	5134.8	5120.6	5182.0	5201.6	5235.8
22.5°	4993.6	4985.8	5049.7	5079.8	5119.2
25°	4837.6	4839.0	4914.9	4950.5	4992.1
27.5°	4674.1	4676.7	4763.2	4812.7	4857.3
30°	4497.3	4505.1	4599.4	4661.1	4719.8
32.5°	4310.1	4325.7	4427.8	4511.8	4577.2
35°	4120.2	4138.5	4251.3	4355.8	4430.4
37.5°	3914.8	3944.9	4071.9	4196.3	4273.3
40°	3713.1	3743.2	3885.8	4023.3	4102.0
42.5°	3505.0	3542.9	3694.8	3847.9	3923.7
45°	3287.7	3331.9	3498.3	3655.5	3737.9
47.5°	3079.3	3118.7	3294.0	3457.8	3542.9
50°	2850.1	2899.9	3081.9	3253.5	3337.4
52.5°	2631.6	2677.4	2864.6	3040.2	3116.1
55°	2406.5	2457.4	2643.5	2809.6	2863.4
57.5°	2175.9	2237.5	2416.9	2555.8	2606.8
60°	1947.0	2008.3	2177.3	2291.3	2329.2
62.5°	1718.9	1784.6	1932.5	2008.3	2008.3
65°	1486.0	1552.8	1678.4	1691.4	1686.2
67.5°	1253.0	1319.9	1415.4	1391.6	1376.0
70°	1026.4	1084.0	1140.5	1097.0	1060.6
72.5°	806.5	861.5	870.8	808.0	761.9
75°	610.0	650.8	629.7	540.9	493.7
77.5°	425.4	449.1	404.6	314.3	276.4
80°	267.1	277.5	217.3	153.1	128.2
82.5°	144.1	145.3	94.3	77.3	72.1
85°	64.2	57.6	43.1	37.9	34.1
87.5°	22.3	19.7	15.6	14.5	11.9
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	17.98	19.56	18.35	19.88	20.19	18.97	20.55	19.33	20.86	21.18
	3H	19.39	20.81	19.77	21.14	21.50	20.17	21.59	20.55	21.92	22.28
	4H	19.79	21.12	20.18	21.47	21.84	20.39	21.72	20.78	22.07	22.44
	6H	19.96	21.19	20.37	21.56	21.95	20.40	21.64	20.81	22.00	22.39
	8H	19.97	21.15	20.40	21.54	21.94	20.38	21.55	20.81	21.94	22.34
	12H	19.97	21.09	20.40	21.47	21.90	20.36	21.48	20.79	21.86	22.29
4H	2H	18.65	19.99	19.05	20.33	20.71	19.44	20.78	19.84	21.12	21.50
	3H	20.22	21.33	20.63	21.73	22.13	20.81	21.92	21.22	22.32	22.72
	4H	20.70	21.69	21.13	22.11	22.54	21.09	22.08	21.52	22.49	22.93
	6H	20.94	21.80	21.39	22.24	22.70	21.14	22.00	21.59	22.44	22.90
	8H	20.96	21.76	21.42	22.21	22.67	21.11	21.92	21.57	22.36	22.83
	12H	20.96	21.68	21.44	22.16	22.63	21.09	21.81	21.57	22.29	22.76
8H	4H	20.84	21.65	21.31	22.09	22.56	21.20	22.01	21.67	22.45	22.92
	6H	21.12	21.78	21.61	22.27	22.75	21.26	21.92	21.76	22.42	22.89
	8H	21.16	21.75	21.67	22.26	22.75	21.24	21.83	21.75	22.34	22.83
	12H	21.17	21.69	21.68	22.19	22.75	21.23	21.75	21.73	22.24	22.80
12H	4H	20.82	21.54	21.31	22.02	22.49	21.19	21.91	21.67	22.39	22.86
	6H	21.09	21.68	21.60	22.19	22.68	21.24	21.83	21.75	22.34	22.83
	8H	21.15	21.68	21.66	22.17	22.73	21.24	21.76	21.75	22.25	22.82