

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: P1499196

Luminaire Tested: MAE-G-4-120-2HI-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499196
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-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

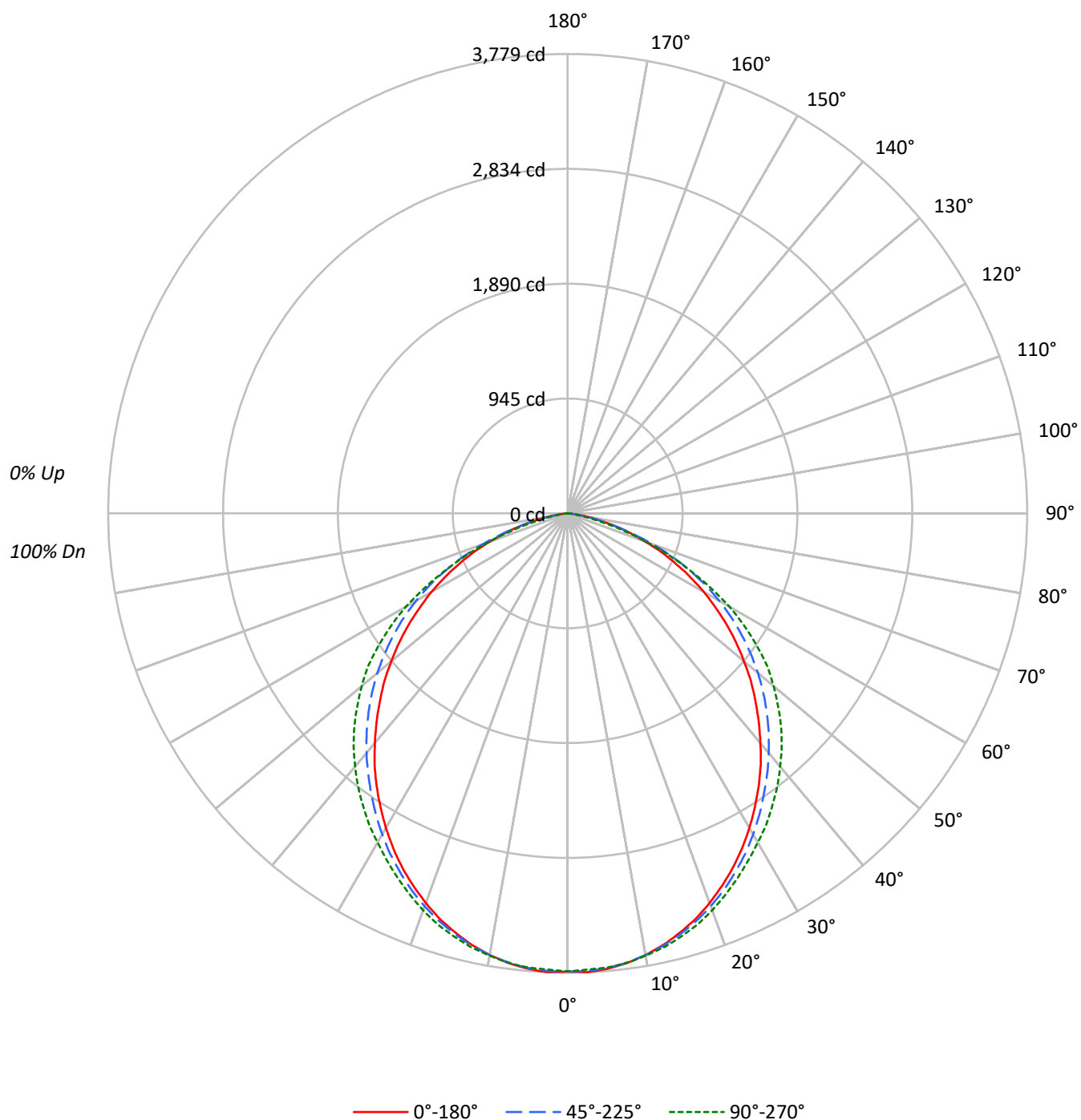
Lumens per Lamp: N/A
Luminaire Lumens: 9512.0 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88.6
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

TEST NUMBER: P1499196

CATALOG NUMBER: MAE-G-4-120-2HI-50-90

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	97	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	58	69	62	57		67	61	56		65
5	78	65	57	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	45	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	37	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°	5070	5070	5070
5°	5079	5071	5065
10°	5040	5040	5047
15°	4973	4990	5021
20°	4884	4925	4976
25°	4775	4838	4911
30°	4644	4739	4859
35°	4498	4624	4821
40°	4331	4520	4776
45°	4154	4407	4723
50°	3962	4275	4628
55°	3743	4103	4454
60°	3478	3874	4135
65°	3137	3520	3540
70°	2678	2929	2738
75°	2102	2122	1710
80°	1368	1091	656
85°	633	415	337

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4723 cd/sqm

TEST NUMBER: P1499196

CATALOG NUMBER: MAE-G-4-120-2HI-50-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.9	3.7
10°-20°	1009.4	10.6
20°-30°	1499.5	15.8
30°-40°	1766.2	18.6
40°-50°	1789.4	18.8
50°-60°	1557.5	16.4
60°-70°	1061.3	11.2
70°-80°	424.2	4.5
80°-90°	48.5	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°	2864.8	30.1
0°-40°	4631.1	48.7
0°-60°	7977.9	83.9
0°-90°	9512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9512.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3768	3768	3768	3768	3768	
5°	3760	3739	3754	3749	3750	357
15°	3570	3555	3583	3596	3604	1006
25°	3217	3218	3259	3286	3308	1480
35°	2738	2751	2815	2889	2935	1711
45°	2183	2210	2316	2425	2482	1685
55°	1596	1630	1749	1859	1899	1425
65°	985	1031	1106	1107	1112	976
75°	404	429	408	351	329	436
85°	41	37	27	24	22	65
90°	0	0	0	0	0	

TEST NUMBER: P1499196

CATALOG NUMBER: MAE-G-4-120-2HI-50-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3768.2	3768.2	3768.2	3768.2	3768.2
2.5°	3778.6	3754.3	3768.2	3765.6	3755.4
5°	3760.5	3738.8	3754.3	3749.2	3750.4
7.5°	3731.1	3710.8	3727.4	3726.0	3730.0
10°	3689.0	3668.6	3689.0	3690.1	3694.1
12.5°	3636.4	3618.6	3642.9	3648.0	3657.0
15°	3569.9	3554.6	3582.6	3595.7	3604.4
17.5°	3498.4	3488.2	3516.2	3532.9	3547.0
20°	3411.3	3406.2	3439.5	3455.9	3475.2
22.5°	3316.5	3314.0	3353.9	3374.2	3393.4
25°	3216.7	3218.1	3259.1	3286.0	3307.8
27.5°	3106.7	3109.2	3159.3	3191.2	3218.1
30°	2989.0	2995.5	3050.4	3094.0	3127.3
32.5°	2864.9	2876.5	2935.3	2995.5	3037.7
35°	2738.2	2751.2	2815.1	2889.2	2935.3
37.5°	2607.8	2621.9	2696.0	2783.1	2831.8
40°	2465.8	2487.3	2573.3	2669.2	2718.9
42.5°	2326.1	2350.4	2446.6	2551.5	2605.3
45°	2183.0	2209.9	2315.9	2424.8	2482.2
47.5°	2044.7	2067.6	2181.6	2295.6	2346.8
50°	1892.6	1923.1	2042.2	2156.1	2211.0
52.5°	1746.6	1776.1	1897.7	2013.9	2070.5
55°	1595.6	1630.1	1749.2	1859.2	1898.8
57.5°	1443.5	1483.1	1598.2	1688.9	1723.4
60°	1292.4	1332.0	1439.5	1511.1	1536.8
62.5°	1140.0	1181.0	1275.8	1319.3	1324.4
65°	985.3	1031.4	1105.5	1106.9	1112.0
67.5°	838.3	876.4	930.2	914.9	907.3
70°	680.7	722.9	744.6	714.1	696.0
72.5°	541.3	571.8	568.2	523.2	501.7
75°	404.4	428.7	408.1	350.7	328.9
77.5°	280.3	300.6	259.6	205.9	184.4
80°	176.5	185.5	140.8	99.8	84.6
82.5°	94.7	93.3	60.2	49.8	46.1
85°	41.0	37.0	26.9	24.3	21.8
87.5°	14.1	12.7	10.2	9.0	7.6
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	16.56	18.14	16.92	18.45	18.77	17.52	19.10	17.88	19.41	19.73
	3H	17.98	19.40	18.35	19.72	20.09	18.71	20.13	19.08	20.45	20.81
	4H	18.37	19.70	18.77	20.05	20.43	18.92	20.25	19.32	20.60	20.98
	6H	18.54	19.78	18.96	20.14	20.53	18.94	20.17	19.35	20.54	20.93
	8H	18.56	19.73	18.98	20.12	20.52	18.92	20.09	19.34	20.48	20.88
	12H	18.55	19.67	18.98	20.05	20.48	18.89	20.01	19.32	20.39	20.82
4H	2H	17.22	18.55	17.62	18.90	19.28	17.99	19.32	18.39	19.67	20.05
	3H	18.80	19.90	19.21	20.30	20.70	19.34	20.44	19.75	20.84	21.24
	4H	19.27	20.26	19.70	20.68	21.11	19.61	20.60	20.04	21.02	21.45
	6H	19.51	20.37	19.97	20.81	21.27	19.66	20.52	20.12	20.96	21.42
	8H	19.53	20.34	20.00	20.78	21.25	19.64	20.44	20.10	20.88	21.35
	12H	19.53	20.25	20.01	20.73	21.20	19.61	20.33	20.10	20.81	21.28
8H	4H	19.41	20.21	19.87	20.65	21.12	19.72	20.53	20.19	20.97	21.44
	6H	19.68	20.34	20.18	20.83	21.31	19.78	20.44	20.28	20.93	21.41
	8H	19.72	20.31	20.23	20.82	21.31	19.76	20.35	20.27	20.86	21.35
	12H	19.73	20.25	20.24	20.75	21.31	19.74	20.26	20.25	20.76	21.32
12H	4H	19.39	20.11	19.87	20.58	21.05	19.71	20.43	20.19	20.91	21.38
	6H	19.65	20.24	20.17	20.75	21.24	19.76	20.35	20.27	20.86	21.35
	8H	19.72	20.24	20.23	20.73	21.29	19.76	20.28	20.27	20.77	21.34