

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: P1499190

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499190
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-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

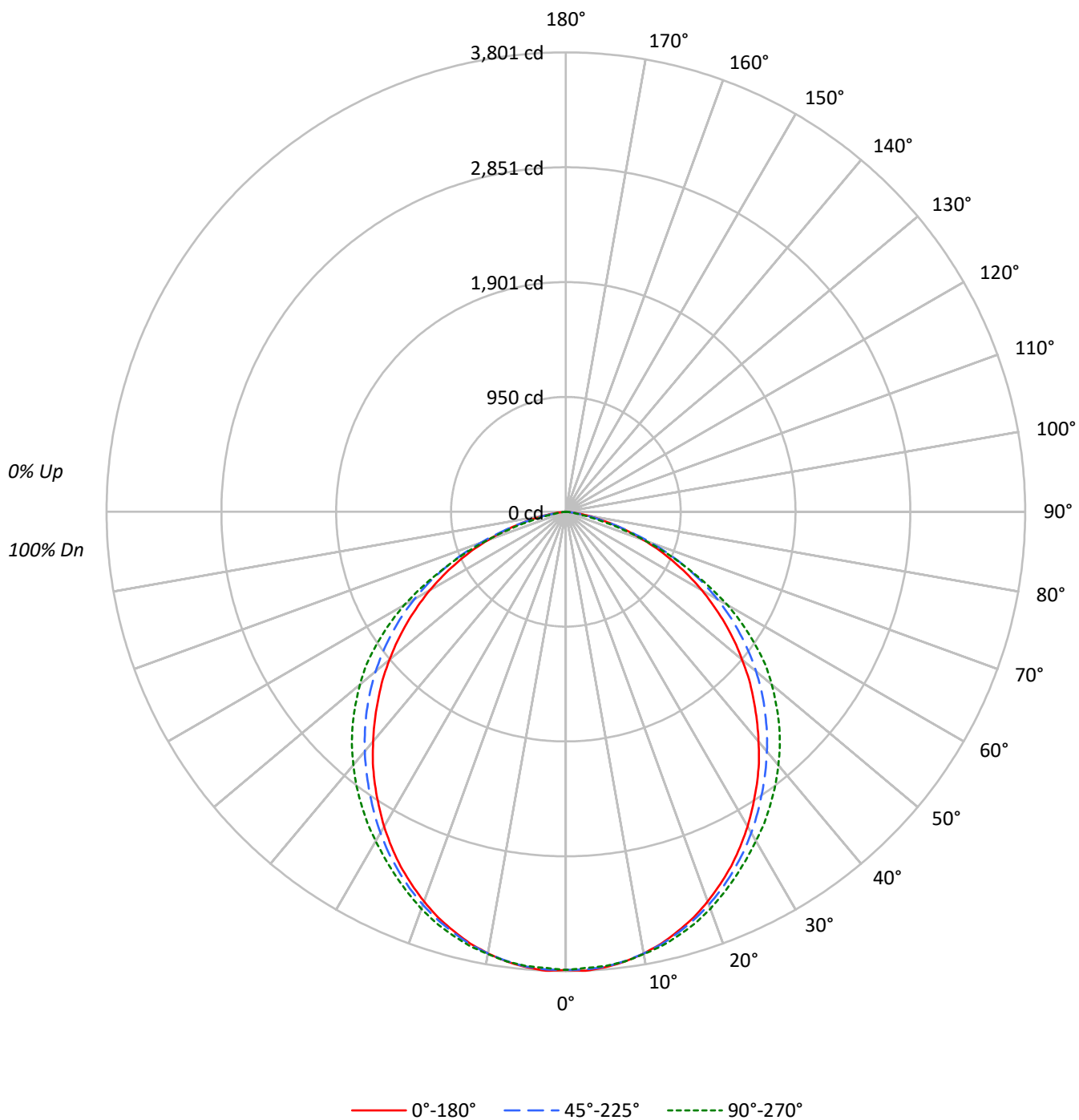
Lumens per Lamp: N/A
Luminaire Lumens: 9569.0 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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	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°	5100	5100	5100
5°	5110	5101	5096
10°	5070	5070	5077
15°	5003	5020	5051
20°	4914	4954	5006
25°	4804	4867	4940
30°	4672	4768	4888
35°	4525	4652	4850
40°	4357	4547	4804
45°	4179	4433	4752
50°	3985	4300	4656
55°	3765	4128	4481
60°	3499	3897	4160
65°	3156	3541	3562
70°	2694	2947	2755
75°	2115	2134	1720
80°	1375	1098	659
85°	638	417	338

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4752 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.0	3.7
10°-20°	1015.5	10.6
20°-30°	1508.5	15.8
30°-40°	1776.8	18.6
40°-50°	1800.1	18.8
50°-60°	1566.8	16.4
60°-70°	1067.6	11.2
70°-80°	426.8	4.5
80°-90°	48.8	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°	2882.0	30.1
0°-40°	4658.8	48.7
0°-60°	8025.7	83.9
0°-90°	9569.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9569.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3791	3791	3791	3791	3791	
5°	3783	3761	3777	3772	3773	359
15°	3591	3576	3604	3617	3626	1012
25°	3236	3237	3279	3306	3328	1489
35°	2755	2768	2832	2906	2953	1722
45°	2196	2223	2330	2439	2497	1695
55°	1605	1640	1760	1870	1910	1434
65°	991	1038	1112	1114	1119	982
75°	407	431	410	353	331	438
85°	41	37	27	24	22	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3790.8	3790.8	3790.8	3790.8	3790.8
2.5°	3801.3	3776.8	3790.8	3788.2	3777.9
5°	3783.1	3761.2	3776.8	3771.7	3772.8
7.5°	3753.5	3733.0	3749.8	3748.4	3752.3
10°	3711.1	3690.6	3711.1	3712.2	3716.2
12.5°	3658.2	3640.2	3664.7	3669.8	3678.9
15°	3591.3	3576.0	3604.1	3617.2	3626.0
17.5°	3519.3	3509.1	3537.3	3554.0	3568.3
20°	3431.7	3426.6	3460.2	3476.7	3496.0
22.5°	3336.4	3333.8	3374.0	3394.4	3413.8
25°	3236.0	3237.4	3278.6	3305.7	3327.6
27.5°	3125.3	3127.9	3178.2	3210.4	3237.4
30°	3006.9	3013.5	3068.7	3112.5	3146.1
32.5°	2882.0	2893.7	2952.9	3013.5	3055.9
35°	2754.6	2767.7	2832.0	2906.5	2952.9
37.5°	2623.4	2637.7	2712.2	2799.8	2848.8
40°	2480.6	2502.2	2588.7	2685.2	2735.2
42.5°	2340.1	2364.5	2461.3	2566.8	2620.9
45°	2196.1	2223.1	2329.8	2439.4	2497.1
47.5°	2057.0	2080.0	2194.7	2309.3	2360.8
50°	1903.9	1934.6	2054.4	2169.1	2224.3
52.5°	1757.1	1786.7	1909.0	2026.0	2082.9
55°	1605.2	1639.9	1759.7	1870.3	1910.2
57.5°	1452.1	1491.9	1607.7	1699.1	1733.8
60°	1300.2	1340.0	1448.1	1520.1	1546.0
62.5°	1146.8	1188.1	1283.4	1327.2	1332.3
65°	991.2	1037.6	1112.1	1113.6	1118.7
67.5°	843.3	881.7	935.7	920.4	912.7
70°	684.8	727.2	749.1	718.4	700.2
72.5°	544.5	575.3	571.6	526.3	504.7
75°	406.8	431.3	410.5	352.8	330.9
77.5°	281.9	302.4	261.2	207.1	185.5
80°	177.5	186.6	141.7	100.4	85.1
82.5°	95.3	93.9	60.6	50.1	46.4
85°	41.3	37.3	27.0	24.5	21.9
87.5°	14.2	12.8	10.2	9.1	7.7
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	16.58	18.16	16.94	18.47	18.79	17.54	19.12	17.90	19.43	19.75
	3H	18.00	19.42	18.38	19.74	20.11	18.73	20.15	19.10	20.47	20.84
	4H	18.39	19.72	18.79	20.07	20.45	18.94	20.28	19.34	20.62	21.00
	6H	18.56	19.80	18.98	20.16	20.55	18.96	20.19	19.37	20.56	20.95
	8H	18.58	19.75	19.00	20.14	20.54	18.94	20.11	19.36	20.50	20.90
	12H	18.57	19.69	19.00	20.07	20.50	18.91	20.03	19.34	20.42	20.84
4H	2H	17.24	18.57	17.64	18.92	19.30	18.01	19.34	18.41	19.69	20.07
	3H	18.82	19.92	19.23	20.32	20.72	19.36	20.47	19.77	20.86	21.26
	4H	19.29	20.28	19.72	20.70	21.14	19.63	20.62	20.06	21.04	21.47
	6H	19.53	20.39	19.99	20.83	21.29	19.68	20.54	20.14	20.98	21.44
	8H	19.55	20.36	20.02	20.80	21.27	19.66	20.46	20.12	20.90	21.37
	12H	19.55	20.27	20.03	20.75	21.22	19.64	20.35	20.12	20.83	21.30
8H	4H	19.43	20.23	19.89	20.67	21.14	19.74	20.55	20.21	20.99	21.46
	6H	19.70	20.36	20.20	20.85	21.33	19.80	20.46	20.30	20.95	21.43
	8H	19.74	20.33	20.25	20.84	21.33	19.78	20.37	20.29	20.88	21.37
	12H	19.75	20.27	20.26	20.77	21.33	19.77	20.29	20.27	20.78	21.34
12H	4H	19.41	20.13	19.89	20.60	21.07	19.73	20.45	20.21	20.93	21.40
	6H	19.67	20.27	20.19	20.77	21.26	19.78	20.37	20.29	20.88	21.37
	8H	19.74	20.26	20.25	20.75	21.31	19.78	20.30	20.29	20.79	21.36