

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: P1499466

Luminaire Tested: MAE-G-4-120-3HI-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499466
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-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

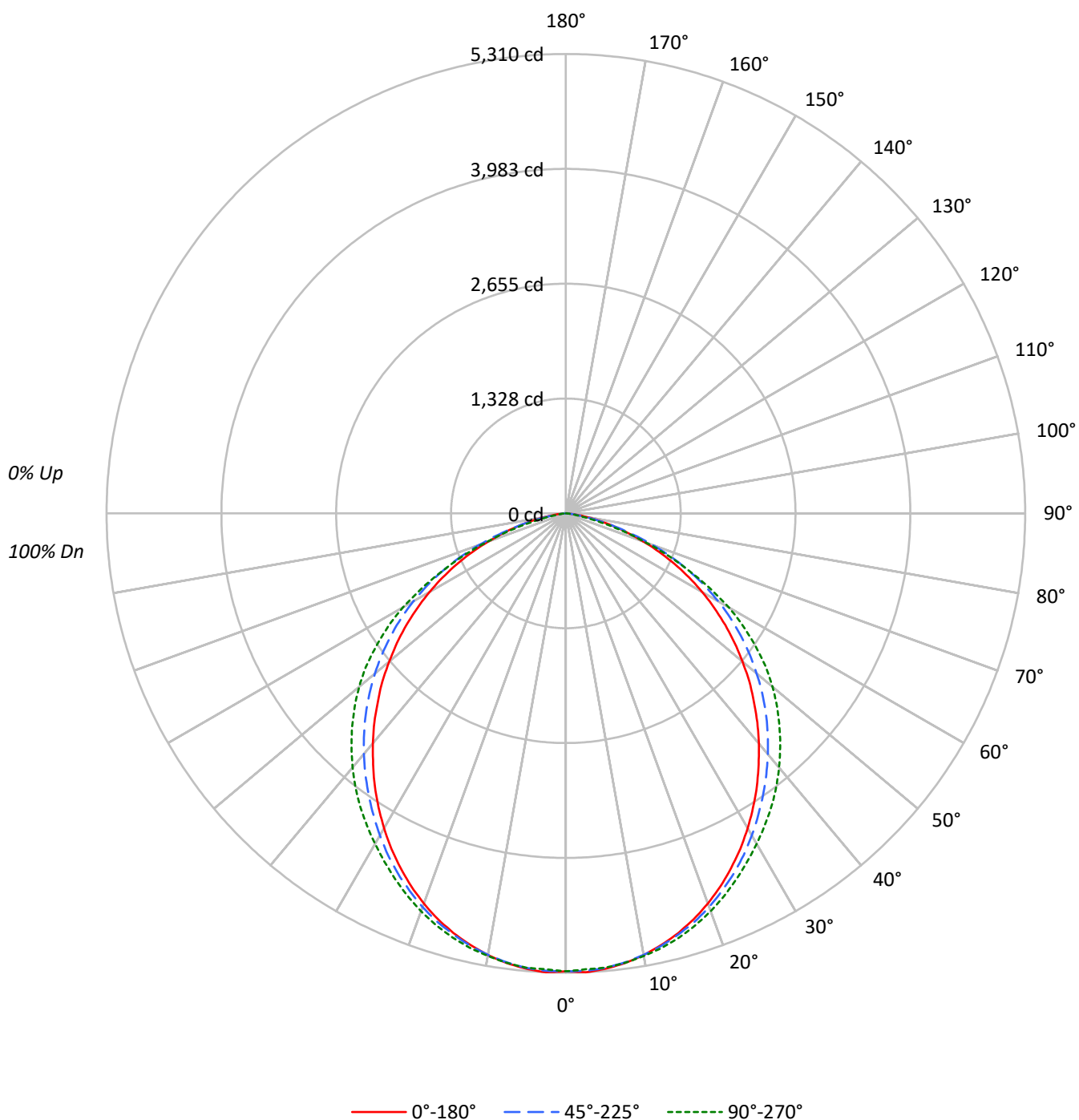
Lumens per Lamp: N/A
Luminaire Lumens: 13415.0 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1499466

CATALOG NUMBER: MAE-G-4-120-3HI-30-90

Luminous Intensity Polar Plot



TEST NUMBER: P1499466

CATALOG NUMBER: MAE-G-4-120-3HI-30-90

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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	64	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	65	59	55	55	55	53
5	78	65	56	50	76	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	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7122	7122	7122
5°	7137	7122	7119
10°	7084	7081	7098
15°	6994	7016	7068
20°	6872	6935	7007
25°	6713	6820	6927
30°	6531	6679	6854
35°	6326	6527	6802
40°	6096	6379	6734
45°	5847	6222	6648
50°	5576	6030	6530
55°	5277	5796	6279
60°	4897	5477	5859
65°	4422	4995	5018
70°	3774	4194	3900
75°	2964	3060	2399
80°	1935	1574	928
85°	926	622	492

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6648 cd/sqm

TEST NUMBER: P1499466

CATALOG NUMBER: MAE-G-4-120-3HI-30-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.0	3.7
10°-20°	1419.4	10.6
20°-30°	2111.1	15.7
30°-40°	2487.7	18.5
40°-50°	2522.2	18.8
50°-60°	2197.8	16.4
60°-70°	1503.1	11.2
70°-80°	603.8	4.5
80°-90°	70.0	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°	4030.5	30.0
0°-40°	6518.1	48.6
0°-60°	11238.1	83.8
0°-90°	13415.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13415.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5293	5293	5293	5293	5293	
5°	5284	5252	5273	5267	5271	501
15°	5021	4999	5037	5058	5074	1415
25°	4522	4523	4594	4627	4666	2082
35°	3851	3868	3974	4071	4141	2406
45°	3073	3114	3270	3417	3494	2372
55°	2249	2297	2471	2626	2676	2008
65°	1389	1451	1569	1581	1576	1373
75°	570	608	589	506	462	612
85°	60	54	40	35	32	93
90°	0	0	0	0	0	



TEST NUMBER: P1499466

CATALOG NUMBER: MAE-G-4-120-3HI-30-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5292.9	5292.9	5292.9	5292.9	5292.9
2.5°	5310.0	5274.5	5292.9	5289.1	5275.6
5°	5284.3	5252.4	5273.2	5267.2	5270.8
7.5°	5242.6	5213.4	5235.3	5234.2	5240.2
10°	5185.3	5155.8	5182.8	5187.7	5195.0
12.5°	5109.3	5084.9	5117.9	5127.7	5142.3
15°	5021.1	4999.2	5037.0	5057.9	5073.8
17.5°	4918.3	4899.9	4948.9	4968.6	4990.5
20°	4799.6	4786.3	4843.6	4862.0	4894.0
22.5°	4667.6	4660.3	4720.0	4748.2	4785.0
25°	4521.8	4523.1	4594.0	4627.3	4666.2
27.5°	4368.9	4371.4	4452.3	4498.5	4540.2
30°	4203.7	4211.0	4299.2	4356.8	4411.7
32.5°	4028.7	4043.3	4138.8	4217.2	4278.3
35°	3851.2	3868.3	3973.8	4071.4	4141.2
37.5°	3659.2	3687.3	3806.1	3922.4	3994.3
40°	3470.6	3498.8	3632.1	3760.6	3834.2
42.5°	3276.2	3311.6	3453.6	3596.7	3667.6
45°	3073.0	3114.4	3269.9	3416.8	3493.9
47.5°	2878.3	2915.1	3079.0	3232.1	3311.6
50°	2664.0	2710.6	2880.7	3041.1	3119.6
52.5°	2459.8	2502.6	2677.6	2841.8	2912.6
55°	2249.4	2297.0	2470.9	2626.2	2676.5
57.5°	2033.8	2091.4	2259.1	2389.0	2436.6
60°	1819.9	1877.2	2035.2	2141.7	2177.2
62.5°	1606.7	1668.1	1806.3	1877.2	1877.2
65°	1389.0	1451.4	1568.8	1581.0	1576.1
67.5°	1171.2	1233.7	1323.0	1300.8	1286.2
70°	959.4	1013.3	1066.0	1025.4	991.3
72.5°	753.9	805.2	813.9	755.2	712.2
75°	570.2	608.3	588.6	505.5	461.5
77.5°	397.6	419.8	378.1	293.8	258.3
80°	249.7	259.4	203.1	143.1	119.8
82.5°	134.7	135.8	88.2	72.2	67.4
85°	60.0	53.8	40.3	35.4	31.9
87.5°	20.8	18.4	14.6	13.5	11.1
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1499466

CATALOG NUMBER: MAE-G-4-120-3HI-30-90

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	17.75	19.33	18.11	19.64	19.96	18.73	20.31	19.10	20.63	20.94
	3H	19.16	20.58	19.53	20.91	21.27	19.93	21.36	20.31	21.68	22.04
	4H	19.55	20.88	19.95	21.23	21.61	20.15	21.49	20.55	21.83	22.21
	6H	19.73	20.96	20.14	21.32	21.71	20.17	21.40	20.58	21.77	22.16
	8H	19.74	20.91	20.17	21.30	21.70	20.15	21.32	20.57	21.71	22.11
	12H	19.73	20.85	20.16	21.24	21.67	20.12	21.24	20.55	21.63	22.05
4H	2H	18.42	19.75	18.82	20.10	20.48	19.21	20.54	19.61	20.89	21.27
	3H	19.99	21.09	20.40	21.49	21.89	20.58	21.68	20.99	22.08	22.48
	4H	20.46	21.46	20.89	21.87	22.31	20.85	21.84	21.28	22.26	22.70
	6H	20.70	21.56	21.16	22.01	22.46	20.90	21.76	21.36	22.21	22.66
	8H	20.73	21.53	21.19	21.97	22.44	20.88	21.68	21.34	22.13	22.59
	12H	20.73	21.44	21.21	21.92	22.39	20.86	21.58	21.34	22.05	22.52
8H	4H	20.61	21.41	21.07	21.86	22.32	20.97	21.77	21.43	22.22	22.68
	6H	20.88	21.54	21.38	22.03	22.51	21.03	21.69	21.52	22.18	22.66
	8H	20.92	21.51	21.44	22.02	22.51	21.01	21.60	21.52	22.11	22.59
	12H	20.94	21.46	21.45	21.95	22.51	20.99	21.51	21.50	22.00	22.57
12H	4H	20.59	21.31	21.07	21.79	22.26	20.96	21.68	21.44	22.15	22.62
	6H	20.85	21.45	21.37	21.96	22.44	21.01	21.60	21.52	22.11	22.59
	8H	20.92	21.44	21.43	21.93	22.50	21.01	21.53	21.52	22.02	22.58