

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: P1499544

Luminaire Tested: MAE-G-4-120-3HI-STD-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499544
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-STD-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

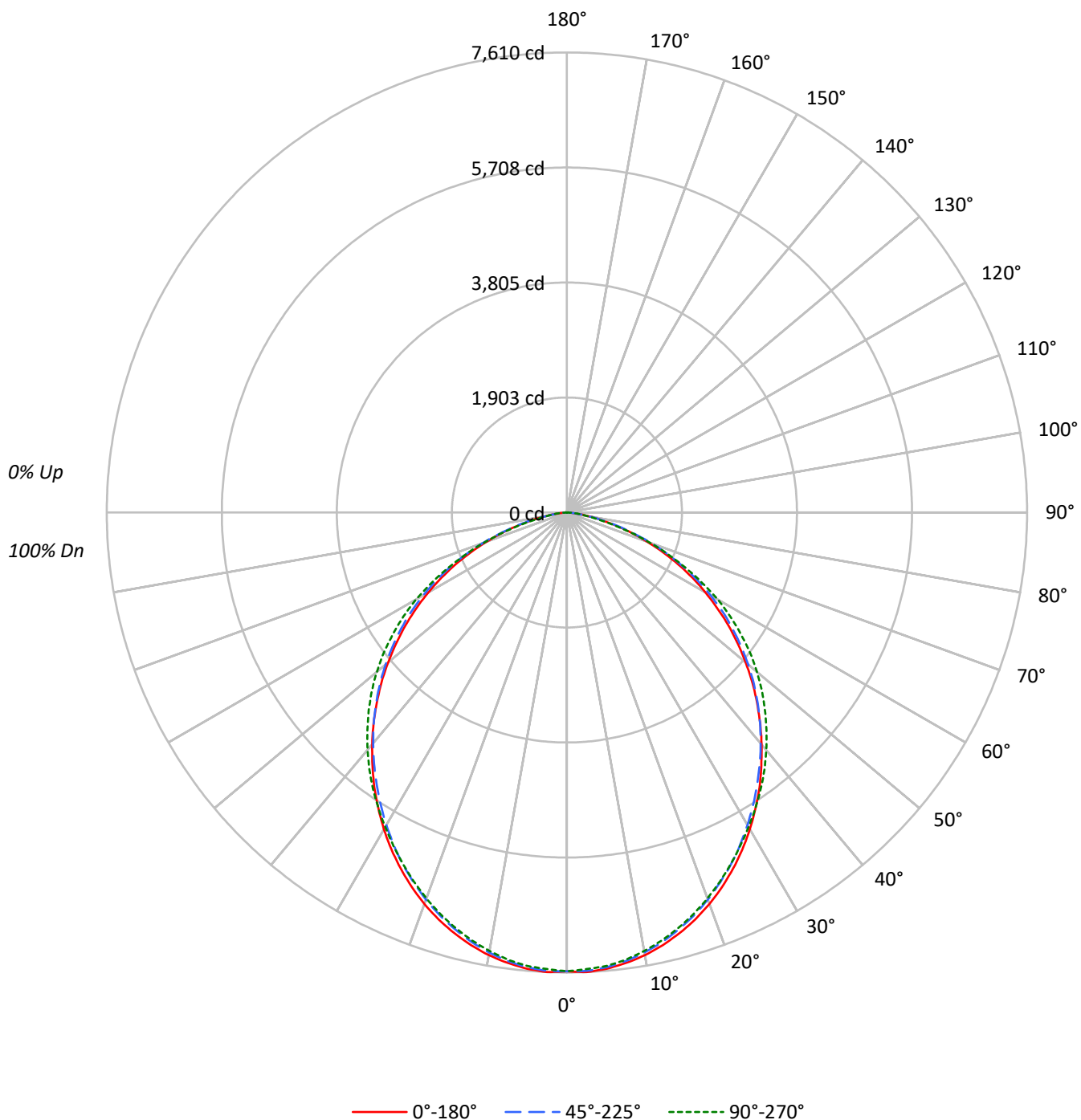
Lumens per Lamp: N/A
Luminaire Lumens: 18758.0 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 201.4
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: P1499544

CATALOG NUMBER: MAE-G-4-120-3HI-STD-35-90

Luminous Intensity Polar Plot



TEST NUMBER: P1499544

CATALOG NUMBER: MAE-G-4-120-3HI-STD-35-90

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	93	90		91
2	100	92	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		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64
5	78	65	56	50	75	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	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10212	10212	10212
5°	10231	10200	10170
10°	10159	10101	10062
15°	10035	9946	9912
20°	9869	9758	9728
25°	9651	9533	9524
30°	9402	9276	9335
35°	9119	9012	9177
40°	8800	8755	9008
45°	8454	8491	8817
50°	8076	8190	8589
55°	7651	7838	8240
60°	7123	7384	7756
65°	6465	6759	6891
70°	5561	5842	5742
75°	4412	4582	4184
80°	2957	2912	2592
85°	1505	1748	2070

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8817 cd/sqm

TEST NUMBER: P1499544

CATALOG NUMBER: MAE-G-4-120-3HI-STD-35-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	714.9	3.8
10°-20°	2011.9	10.7
20°-30°	2960.1	15.8
30°-40°	3452.5	18.4
40°-50°	3466.2	18.5
50°-60°	2999.2	16.0
60°-70°	2081.5	11.1
70°-80°	919.7	4.9
80°-90°	152.1	0.8
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°	5686.9	30.3
0°-40°	9139.4	48.7
0°-60°	15604.8	83.2
0°-90°	18758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18758.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7590	7590	7590	7590	7590	
5°	7575	7541	7552	7521	7530	719
15°	7204	7160	7140	7103	7116	2030
25°	6501	6452	6421	6386	6415	2993
35°	5552	5496	5487	5527	5587	3469
45°	4443	4409	4462	4568	4634	3428
55°	3262	3241	3342	3469	3513	2912
65°	2031	2038	2123	2159	2164	2007
75°	849	863	881	836	805	912
85°	98	102	113	128	134	145
90°	0	0	0	0	0	

TEST NUMBER: P1499544

CATALOG NUMBER: MAE-G-4-120-3HI-STD-35-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7589.8	7589.8	7589.8	7589.8	7589.8
2.5°	7609.5	7575.4	7589.8	7565.7	7558.2
5°	7575.0	7540.6	7551.9	7520.6	7530.0
7.5°	7516.0	7480.5	7484.5	7451.6	7460.7
10°	7435.9	7395.2	7393.0	7356.8	7364.5
12.5°	7329.2	7288.5	7278.8	7238.3	7251.7
15°	7204.3	7160.3	7140.5	7102.9	7115.6
17.5°	7059.3	7012.0	6988.7	6944.1	6964.0
20°	6892.7	6843.2	6815.1	6767.1	6794.1
22.5°	6706.3	6655.6	6622.2	6581.7	6609.7
25°	6501.0	6451.6	6421.2	6386.0	6415.3
27.5°	6285.1	6230.2	6201.7	6181.1	6213.3
30°	6051.6	5995.9	5970.3	5963.5	6008.5
32.5°	5804.9	5751.3	5732.4	5749.3	5800.8
35°	5552.0	5495.8	5486.6	5527.4	5587.1
37.5°	5279.8	5235.4	5238.8	5303.2	5364.2
40°	5010.4	4963.9	4984.7	5064.6	5128.4
42.5°	4731.8	4693.0	4726.7	4824.9	4884.8
45°	4443.1	4408.9	4462.5	4568.5	4633.7
47.5°	4160.5	4124.2	4192.4	4306.8	4376.5
50°	3858.4	3832.4	3912.6	4038.6	4103.5
52.5°	3560.1	3534.8	3629.0	3760.8	3822.6
55°	3261.8	3240.7	3341.5	3468.6	3512.8
57.5°	2953.6	2947.7	3049.5	3159.7	3204.8
60°	2646.9	2643.6	2744.1	2843.3	2882.3
62.5°	2340.1	2344.1	2437.2	2514.1	2524.7
65°	2030.6	2038.4	2123.1	2158.9	2164.4
67.5°	1718.1	1733.6	1807.0	1819.3	1815.4
70°	1413.6	1424.0	1485.0	1480.9	1459.6
72.5°	1117.7	1135.1	1169.2	1149.0	1117.3
75°	848.6	862.6	881.4	835.5	804.8
77.5°	597.8	607.7	609.0	559.9	539.2
80°	381.6	393.7	375.8	348.5	334.5
82.5°	212.1	222.8	207.5	218.6	224.1
85°	97.5	102.4	113.2	128.2	134.1
87.5°	33.2	38.4	46.0	48.8	45.1
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1499544

CATALOG NUMBER: MAE-G-4-120-3HI-STD-35-90

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	19.00	20.59	19.37	20.90	21.22	19.50	21.09	19.87	21.40	21.71
	3H	20.44	21.87	20.82	22.20	22.56	20.88	22.30	21.26	22.63	22.99
	4H	20.86	22.20	21.26	22.54	22.92	21.22	22.56	21.62	22.90	23.28
	6H	21.06	22.29	21.47	22.66	23.05	21.35	22.58	21.76	22.95	23.34
	8H	21.08	22.26	21.50	22.65	23.05	21.36	22.54	21.79	22.93	23.33
	12H	21.08	22.20	21.51	22.58	23.01	21.37	22.50	21.80	22.88	23.31
4H	2H	19.60	20.94	20.00	21.29	21.66	20.01	21.34	20.41	21.69	22.07
	3H	21.22	22.33	21.63	22.73	23.13	21.56	22.67	21.97	23.07	23.47
	4H	21.72	22.71	22.15	23.13	23.57	21.99	22.98	22.42	23.40	23.84
	6H	21.98	22.85	22.44	23.29	23.75	22.18	23.05	22.63	23.49	23.94
	8H	22.02	22.83	22.48	23.28	23.74	22.21	23.02	22.67	23.46	23.93
	12H	22.03	22.76	22.51	23.23	23.70	22.23	22.95	22.71	23.43	23.90
8H	4H	21.89	22.70	22.35	23.15	23.61	22.14	22.95	22.60	23.39	23.86
	6H	22.21	22.88	22.71	23.37	23.85	22.37	23.04	22.87	23.53	24.01
	8H	22.27	22.87	22.78	23.38	23.87	22.42	23.02	22.93	23.53	24.02
	12H	22.30	22.83	22.81	23.32	23.88	22.47	23.00	22.98	23.49	24.05
12H	4H	21.89	22.61	22.37	23.09	23.56	22.13	22.86	22.62	23.34	23.81
	6H	22.20	22.80	22.71	23.31	23.79	22.36	22.96	22.87	23.47	23.96
	8H	22.29	22.82	22.80	23.31	23.87	22.44	22.97	22.95	23.46	24.03