

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: P1499436

Luminaire Tested: MAE-G-4-120-2STD-LO-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499436
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-4-120-2STD-LO-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

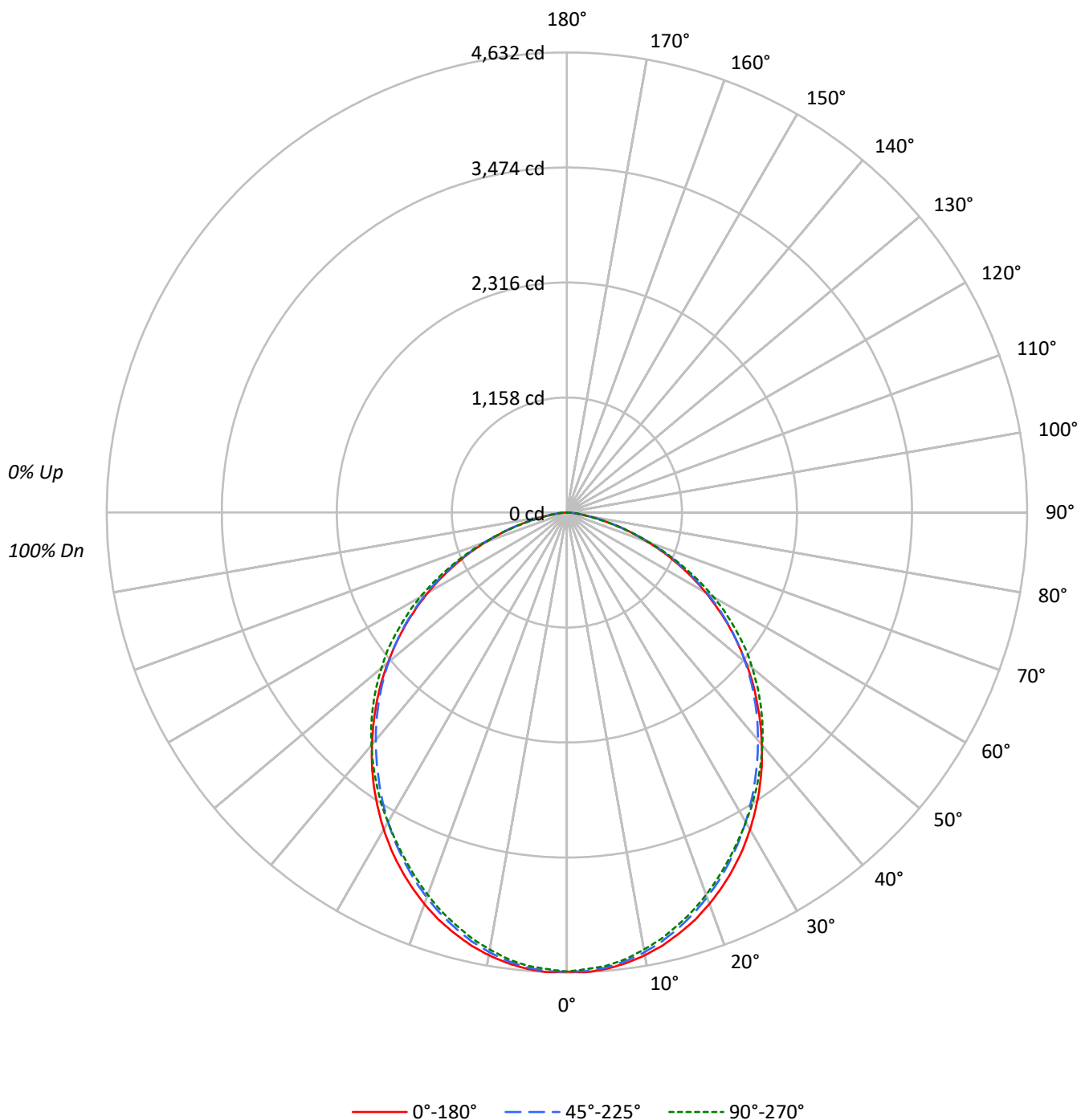
Lumens per Lamp: N/A
Luminaire Lumens: 11321.0 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 116.5
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: P1499436

CATALOG NUMBER: MAE-G-4-120-2STD-LO-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	101	98	107	103	99	96	99	96	93		95	92	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	45	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6219	6219	6219
5°	6229	6210	6186
10°	6184	6143	6105
15°	6107	6036	5994
20°	6006	5905	5866
25°	5878	5755	5722
30°	5727	5591	5594
35°	5556	5418	5486
40°	5361	5256	5374
45°	5152	5088	5255
50°	4924	4905	5099
55°	4662	4684	4892
60°	4346	4406	4598
65°	3947	4027	4125
70°	3402	3486	3487
75°	2704	2773	2661
80°	1820	1847	1761
85°	920	1169	1453

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5255 cd/sqm

TEST NUMBER: P1499436

CATALOG NUMBER: MAE-G-4-120-2STD-LO-50-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.0	3.8
10°-20°	1220.9	10.8
20°-30°	1790.0	15.8
30°-40°	2081.6	18.4
40°-50°	2083.4	18.4
50°-60°	1798.0	15.9
60°-70°	1249.4	11.0
70°-80°	563.5	5.0
80°-90°	99.3	0.9
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°	3445.8	30.4
0°-40°	5527.4	48.8
0°-60°	9408.8	83.1
0°-90°	11321.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11321.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4622	4622	4622	4622	4622	
5°	4612	4593	4598	4575	4580	437
15°	4384	4356	4334	4299	4303	1236
25°	3960	3922	3876	3845	3854	1822
35°	3383	3337	3298	3312	3340	2114
45°	2708	2671	2674	2726	2762	2089
55°	1987	1962	1997	2060	2086	1775
65°	1240	1234	1265	1284	1296	1227
75°	520	520	533	518	512	560
85°	60	65	76	89	94	89
90°	0	0	0	0	0	

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CATALOG NUMBER: MAE-G-4-120-2STD-LO-50-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4622.1	4622.1	4622.1	4622.1	4622.1
2.5°	4632.2	4614.5	4622.1	4604.9	4601.7
5°	4611.6	4593.3	4597.8	4574.8	4580.0
7.5°	4576.0	4555.7	4554.9	4529.7	4535.1
10°	4526.5	4502.5	4495.9	4465.5	4468.7
12.5°	4463.2	4437.1	4423.3	4389.0	4394.9
15°	4384.2	4355.9	4333.5	4299.1	4303.2
17.5°	4297.6	4268.1	4234.3	4198.5	4207.7
20°	4194.6	4163.4	4123.8	4086.3	4097.0
22.5°	4080.9	4046.1	4005.9	3969.5	3977.1
25°	3959.6	3922.3	3876.4	3845.1	3854.3
27.5°	3827.7	3786.2	3741.2	3714.9	3728.1
30°	3686.0	3643.2	3598.6	3583.2	3600.9
32.5°	3536.7	3493.9	3451.7	3451.3	3476.3
35°	3382.6	3337.2	3298.5	3312.3	3339.7
37.5°	3222.5	3178.1	3146.7	3174.3	3203.0
40°	3052.3	3012.3	2992.3	3028.9	3059.4
42.5°	2881.7	2844.0	2835.1	2881.4	2914.3
45°	2707.5	2670.6	2674.1	2726.5	2761.6
47.5°	2535.1	2497.0	2511.5	2569.6	2601.1
50°	2352.2	2320.4	2343.3	2404.2	2435.9
52.5°	2169.3	2140.1	2171.7	2236.0	2272.6
55°	1987.2	1961.5	1996.9	2059.6	2085.5
57.5°	1800.6	1782.8	1820.6	1875.0	1899.5
60°	1615.0	1599.2	1637.5	1686.3	1708.8
62.5°	1427.4	1415.1	1453.1	1490.7	1502.9
65°	1239.6	1233.5	1264.8	1283.5	1295.6
67.5°	1055.7	1048.9	1077.5	1092.0	1094.5
70°	864.7	864.1	886.2	890.4	886.5
72.5°	689.9	687.2	703.1	697.8	690.4
75°	520.1	520.3	533.4	517.8	511.8
77.5°	365.9	372.4	373.0	359.1	353.9
80°	234.9	243.7	238.4	232.0	227.3
82.5°	131.0	137.2	136.4	148.9	153.9
85°	59.6	65.1	75.7	88.9	94.1
87.5°	20.2	24.9	31.6	33.6	31.6
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	17.27	18.86	17.64	19.17	19.49	17.63	19.21	18.00	19.53	19.84
	3H	18.73	20.16	19.11	20.48	20.84	19.04	20.47	19.42	20.79	21.16
	4H	19.15	20.49	19.55	20.84	21.21	19.42	20.76	19.82	21.11	21.48
	6H	19.35	20.59	19.76	20.95	21.35	19.59	20.82	20.00	21.19	21.58
	8H	19.38	20.56	19.80	20.94	21.34	19.62	20.79	20.04	21.18	21.58
	12H	19.37	20.50	19.80	20.88	21.31	19.63	20.76	20.06	21.14	21.57
4H	2H	17.85	19.19	18.25	19.54	19.91	18.14	19.48	18.54	19.82	20.20
	3H	19.48	20.59	19.89	20.99	21.39	19.73	20.85	20.14	21.24	21.64
	4H	19.99	20.99	20.42	21.40	21.84	20.20	21.19	20.63	21.61	22.05
	6H	20.26	21.13	20.72	21.57	22.03	20.43	21.30	20.89	21.74	22.20
	8H	20.30	21.11	20.76	21.56	22.02	20.48	21.29	20.94	21.73	22.20
	12H	20.31	21.04	20.79	21.52	21.99	20.51	21.24	21.00	21.72	22.19
8H	4H	20.16	20.98	20.63	21.42	21.89	20.36	21.17	20.82	21.61	22.08
	6H	20.49	21.16	20.99	21.65	22.13	20.64	21.31	21.14	21.80	22.28
	8H	20.56	21.16	21.07	21.67	22.15	20.72	21.32	21.23	21.83	22.31
	12H	20.59	21.12	21.10	21.61	22.17	20.78	21.31	21.29	21.80	22.37
12H	4H	20.16	20.89	20.64	21.36	21.83	20.35	21.08	20.83	21.55	22.03
	6H	20.49	21.09	21.00	21.60	22.08	20.64	21.24	21.15	21.74	22.23
	8H	20.59	21.11	21.09	21.61	22.17	20.74	21.27	21.25	21.76	22.33