

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: P1499304

Luminaire Tested: MAE-G-4-120-2LO-HI-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499304
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-4-120-2LO-HI-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

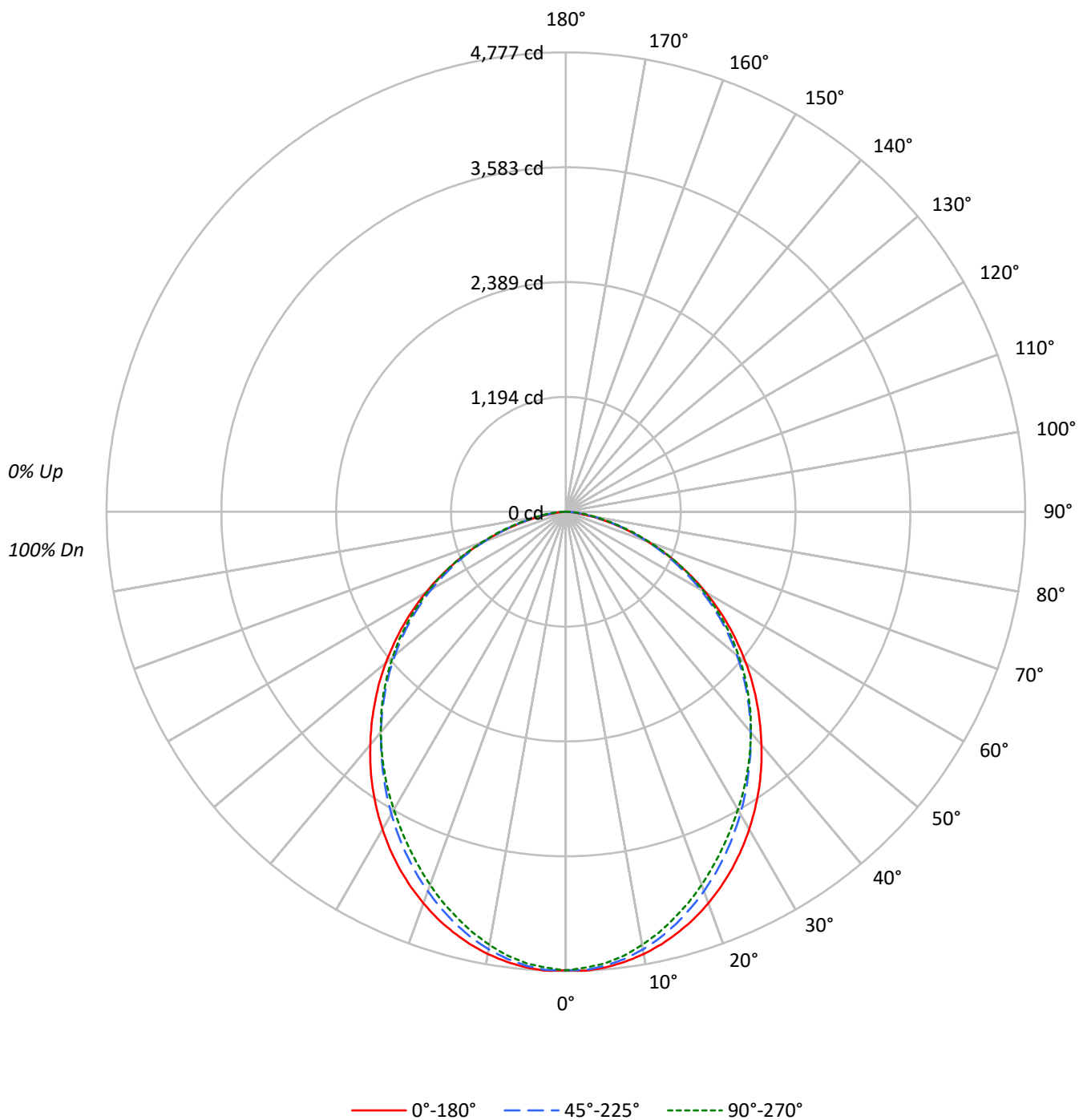
Lumens per Lamp: N/A
Luminaire Lumens: 11475.0 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.9
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: P1499304

CATALOG NUMBER: MAE-G-4-120-2LO-HI-35-90

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	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	84	79	87	82	78		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	60	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	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6415	6415	6415
5°	6424	6400	6365
10°	6381	6313	6248
15°	6304	6177	6087
20°	6204	6011	5912
25°	6076	5831	5726
30°	5925	5637	5557
35°	5755	5440	5408
40°	5559	5252	5259
45°	5348	5063	5105
50°	5117	4861	4921
55°	4850	4627	4711
60°	4530	4343	4465
65°	4129	3983	4127
70°	3577	3533	3674
75°	2863	2961	3074
80°	1960	2204	2380
85°	1034	1593	2109

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5348 cd/sqm

TEST NUMBER: P1499304

CATALOG NUMBER: MAE-G-4-120-2LO-HI-35-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.8	3.9
10°-20°	1249.2	10.9
20°-30°	1817.5	15.8
30°-40°	2097.5	18.3
40°-50°	2083.7	18.2
50°-60°	1788.7	15.6
60°-70°	1258.1	11.0
70°-80°	606.6	5.3
80°-90°	125.7	1.1
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°	3514.6	30.6
0°-40°	5612.1	48.9
0°-60°	9484.6	82.7
0°-90°	11475.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11475.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4768	4768	4768	4768	4768	
5°	4757	4742	4739	4705	4713	451
15°	4526	4491	4434	4370	4370	1276
25°	4093	4031	3928	3858	3857	1884
35°	3504	3420	3312	3281	3292	2190
45°	2810	2731	2661	2667	2683	2168
55°	2068	2001	1973	1995	2008	1846
65°	1297	1254	1251	1280	1296	1283
75°	551	534	570	586	591	592
85°	67	79	103	126	137	98
90°	0	0	0	0	0	

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CATALOG NUMBER: MAE-G-4-120-2LO-HI-35-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4768.1	4768.1	4768.1	4768.1	4768.1
2.5°	4776.7	4765.8	4768.1	4741.9	4744.1
5°	4756.6	4742.4	4738.7	4705.0	4712.8
7.5°	4720.1	4702.0	4688.5	4648.7	4654.7
10°	4670.1	4646.0	4620.7	4570.7	4573.1
12.5°	4605.6	4576.2	4536.4	4477.4	4480.4
15°	4525.8	4490.8	4434.5	4369.5	4369.8
17.5°	4437.0	4396.6	4321.8	4251.7	4256.6
20°	4333.0	4286.3	4198.2	4125.5	4129.0
22.5°	4217.2	4162.9	4069.0	3995.4	3993.9
25°	4092.8	4031.3	3927.7	3857.7	3856.7
27.5°	3958.5	3889.5	3780.7	3715.1	3717.2
30°	3813.8	3739.9	3628.3	3571.9	3576.6
32.5°	3661.6	3584.0	3473.4	3429.4	3439.4
35°	3503.5	3420.5	3311.9	3280.9	3292.2
37.5°	3338.1	3256.1	3152.1	3133.8	3145.3
40°	3164.9	3084.7	2990.3	2980.7	2994.2
42.5°	2989.3	2910.8	2827.2	2826.7	2841.2
45°	2810.4	2731.3	2660.7	2667.3	2682.7
47.5°	2630.9	2552.9	2494.3	2506.3	2520.3
50°	2444.5	2371.0	2322.3	2338.9	2350.8
52.5°	2253.5	2185.1	2148.8	2169.1	2187.7
55°	2067.5	2001.1	1972.6	1994.9	2008.2
57.5°	1875.1	1817.7	1796.0	1818.7	1833.7
60°	1683.4	1629.4	1614.0	1641.5	1659.4
62.5°	1489.5	1440.0	1433.3	1462.8	1478.9
65°	1296.9	1253.8	1251.1	1280.4	1296.4
67.5°	1105.2	1066.8	1074.3	1108.8	1118.2
70°	909.3	878.2	898.2	927.0	933.9
72.5°	726.9	700.5	729.0	752.7	756.3
75°	550.7	533.5	569.5	585.6	591.4
77.5°	390.4	386.3	416.8	433.0	440.1
80°	253.0	260.8	284.5	303.6	307.1
82.5°	143.9	154.8	177.3	205.1	215.9
85°	67.0	78.6	103.2	126.4	136.6
87.5°	22.5	31.0	43.8	47.8	45.7
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	17.39	18.97	17.75	19.29	19.60	17.37	18.95	17.73	19.26	19.58
	3H	18.87	20.29	19.24	20.62	20.98	18.93	20.36	19.31	20.69	21.05
	4H	19.30	20.64	19.70	20.99	21.37	19.43	20.77	19.83	21.11	21.49
	6H	19.52	20.76	19.93	21.12	21.51	19.72	20.96	20.13	21.32	21.71
	8H	19.55	20.73	19.98	21.12	21.52	19.80	20.98	20.22	21.37	21.77
	12H	19.55	20.68	19.98	21.07	21.49	19.85	20.98	20.28	21.36	21.79
4H	2H	17.92	19.26	18.32	19.60	19.98	17.90	19.24	18.30	19.59	19.96
	3H	19.58	20.69	19.99	21.09	21.49	19.66	20.78	20.07	21.17	21.57
	4H	20.10	21.10	20.53	21.52	21.95	20.26	21.26	20.69	21.68	22.11
	6H	20.40	21.27	20.85	21.71	22.17	20.64	21.52	21.10	21.96	22.42
	8H	20.45	21.27	20.91	21.71	22.18	20.75	21.57	21.22	22.01	22.48
	12H	20.47	21.20	20.95	21.67	22.14	20.84	21.57	21.32	22.05	22.52
8H	4H	20.30	21.12	20.77	21.56	22.03	20.45	21.26	20.91	21.71	22.17
	6H	20.67	21.34	21.16	21.83	22.31	20.91	21.58	21.40	22.07	22.55
	8H	20.75	21.35	21.26	21.86	22.35	21.07	21.67	21.58	22.18	22.67
	12H	20.79	21.33	21.30	21.82	22.38	21.21	21.74	21.72	22.23	22.80
12H	4H	20.31	21.04	20.79	21.52	21.99	20.45	21.18	20.93	21.66	22.13
	6H	20.68	21.29	21.19	21.79	22.28	20.91	21.52	21.43	22.03	22.51
	8H	20.80	21.33	21.31	21.82	22.39	21.11	21.65	21.62	22.14	22.70