

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: P1499361

Luminaire Tested: MAE-G-4-120-2LO-STD-40

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499361
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-STD-40
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

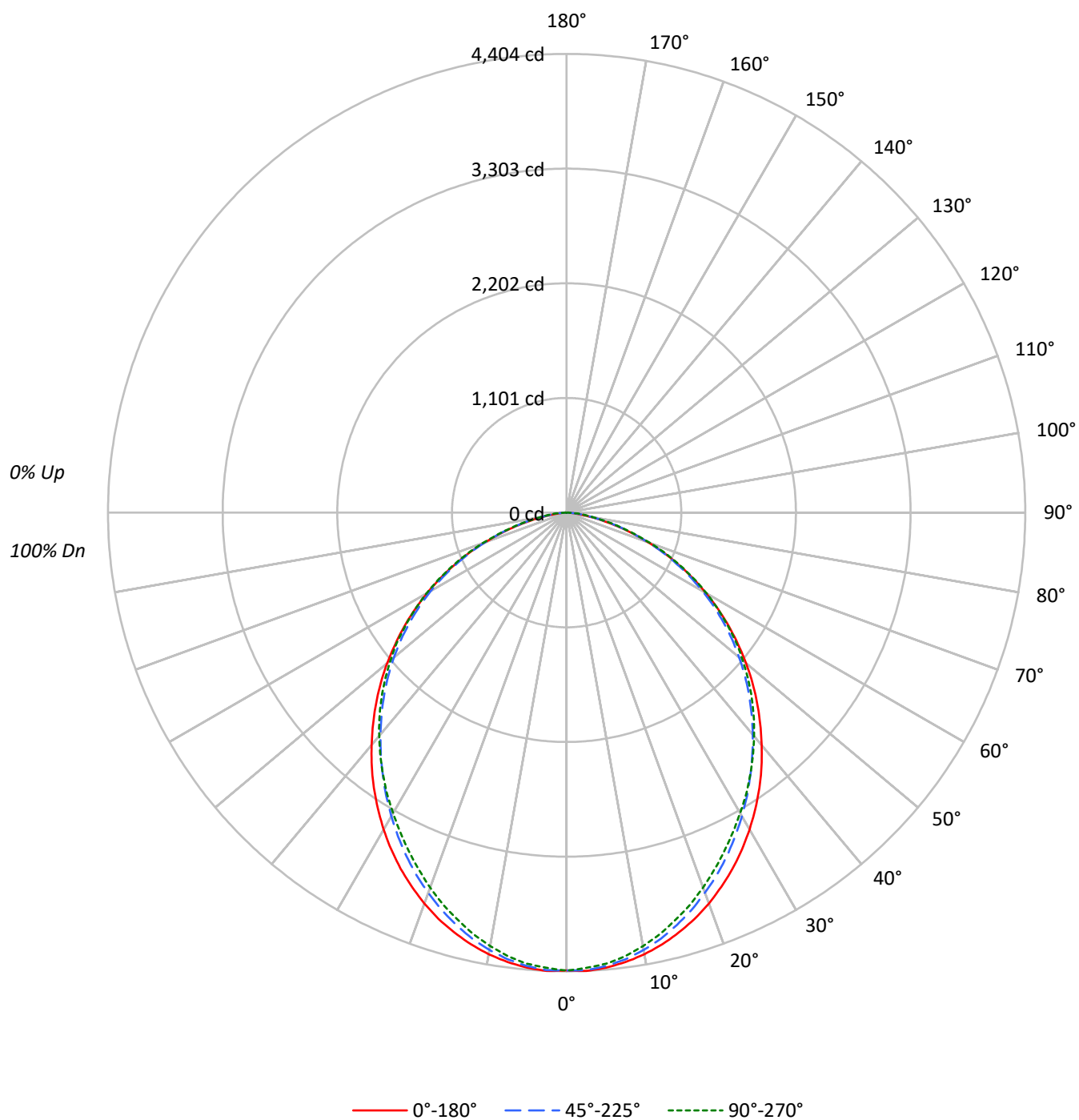
Lumens per Lamp: N/A
Luminaire Lumens: 10629.0 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	85	79	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	56		66	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	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5915	5915	5915
5°	5923	5902	5872
10°	5882	5826	5772
15°	5811	5707	5635
20°	5717	5561	5485
25°	5599	5402	5322
30°	5458	5229	5176
35°	5299	5052	5047
40°	5117	4884	4918
45°	4922	4713	4784
50°	4708	4531	4620
55°	4461	4316	4426
60°	4165	4054	4185
65°	3792	3714	3837
70°	3281	3273	3368
75°	2621	2705	2753
80°	1787	1958	2055
85°	932	1374	1792

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4922 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.1	3.9
10°-20°	1154.2	10.9
20°-30°	1682.7	15.8
30°-40°	1946.0	18.3
40°-50°	1937.1	18.2
50°-60°	1665.3	15.7
60°-70°	1167.5	11.0
70°-80°	553.0	5.2
80°-90°	110.1	1.0
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°	3250.0	30.6
0°-40°	5196.0	48.9
0°-60°	8798.4	82.8
0°-90°	10629.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10629.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4396	4396	4396	4396	4396	
5°	4385	4371	4370	4341	4348	416
15°	4172	4141	4097	4044	4046	1176
25°	3771	3720	3638	3583	3585	1736
35°	3226	3159	3076	3058	3073	2016
45°	2586	2524	2477	2495	2514	1995
55°	1902	1850	1840	1871	1887	1698
65°	1191	1160	1167	1191	1205	1178
75°	504	493	520	527	530	542
85°	60	70	89	108	116	89
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4395.8	4395.8	4395.8	4395.8	4395.8
2.5°	4404.1	4392.2	4395.8	4373.6	4374.3
5°	4385.2	4371.0	4369.7	4341.1	4347.6
7.5°	4351.6	4334.1	4324.9	4291.6	4297.0
10°	4305.3	4282.8	4264.1	4222.6	4225.0
12.5°	4245.6	4219.1	4188.6	4140.1	4143.6
15°	4171.5	4140.7	4097.1	4044.4	4045.6
17.5°	4089.5	4054.8	3995.8	3939.3	3944.8
20°	3993.1	3953.7	3884.0	3825.5	3830.5
22.5°	3886.0	3840.5	3766.8	3707.9	3708.8
25°	3771.2	3720.1	3638.4	3583.3	3584.9
27.5°	3646.9	3589.7	3504.8	3453.8	3458.6
30°	3513.1	3452.4	3365.6	3323.7	3331.3
32.5°	3372.4	3309.1	3223.7	3193.9	3206.9
35°	3226.4	3158.8	3075.6	3058.2	3072.8
37.5°	3074.0	3007.3	2929.1	2923.8	2938.8
40°	2913.6	2849.3	2780.5	2783.5	2800.2
42.5°	2751.7	2689.1	2630.5	2641.9	2660.0
45°	2586.5	2523.8	2477.0	2494.8	2514.2
47.5°	2421.6	2359.2	2323.4	2346.2	2363.6
50°	2249.2	2191.5	2164.4	2191.1	2207.1
52.5°	2073.6	2020.0	2003.6	2033.6	2055.5
55°	1901.7	1850.4	1840.1	1871.1	1886.7
57.5°	1724.4	1681.0	1676.0	1705.2	1721.5
60°	1547.7	1507.1	1506.5	1537.5	1555.3
62.5°	1369.0	1332.4	1337.7	1367.1	1381.0
65°	1191.1	1160.5	1166.7	1191.2	1205.1
67.5°	1014.9	987.2	999.5	1026.6	1033.6
70°	834.1	812.9	832.0	852.5	856.1
72.5°	666.4	647.9	671.1	685.8	686.3
75°	504.2	492.7	520.3	527.2	529.6
77.5°	356.7	355.6	376.3	383.7	387.2
80°	230.6	238.1	252.7	263.9	265.2
82.5°	130.5	139.5	154.4	176.4	184.9
85°	60.4	69.7	89.0	108.0	116.1
87.5°	20.4	27.3	37.6	40.8	38.9
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	17.10	18.69	17.47	19.00	19.32	17.19	18.77	17.55	19.08	19.40
	3H	18.58	20.00	18.95	20.33	20.69	18.71	20.14	19.09	20.46	20.82
	4H	19.01	20.35	19.41	20.69	21.07	19.17	20.51	19.57	20.86	21.23
	6H	19.22	20.46	19.63	20.82	21.22	19.42	20.66	19.84	21.03	21.42
	8H	19.25	20.43	19.68	20.82	21.22	19.49	20.67	19.91	21.06	21.46
	12H	19.25	20.38	19.68	20.76	21.19	19.53	20.66	19.96	21.04	21.47
4H	2H	17.65	18.98	18.04	19.33	19.71	17.71	19.05	18.11	19.40	19.77
	3H	19.30	20.41	19.71	20.81	21.21	19.43	20.54	19.84	20.94	21.34
	4H	19.81	20.82	20.25	21.23	21.67	19.99	20.99	20.42	21.40	21.84
	6H	20.11	20.98	20.56	21.42	21.88	20.33	21.20	20.78	21.64	22.10
	8H	20.16	20.97	20.62	21.41	21.88	20.42	21.24	20.88	21.68	22.15
	12H	20.17	20.90	20.65	21.38	21.85	20.49	21.22	20.97	21.70	22.17
8H	4H	20.01	20.83	20.47	21.27	21.74	20.17	20.98	20.63	21.43	21.89
	6H	20.37	21.04	20.86	21.53	22.01	20.58	21.25	21.07	21.74	22.22
	8H	20.44	21.05	20.96	21.55	22.04	20.71	21.32	21.23	21.83	22.31
	12H	20.48	21.02	20.99	21.51	22.07	20.83	21.37	21.34	21.86	22.42
12H	4H	20.02	20.75	20.50	21.22	21.69	20.17	20.90	20.65	21.37	21.84
	6H	20.37	20.98	20.89	21.49	21.97	20.58	21.19	21.09	21.69	22.18
	8H	20.49	21.02	21.00	21.51	22.07	20.75	21.29	21.26	21.78	22.34