

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: P1499409

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499409
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-HI-40
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

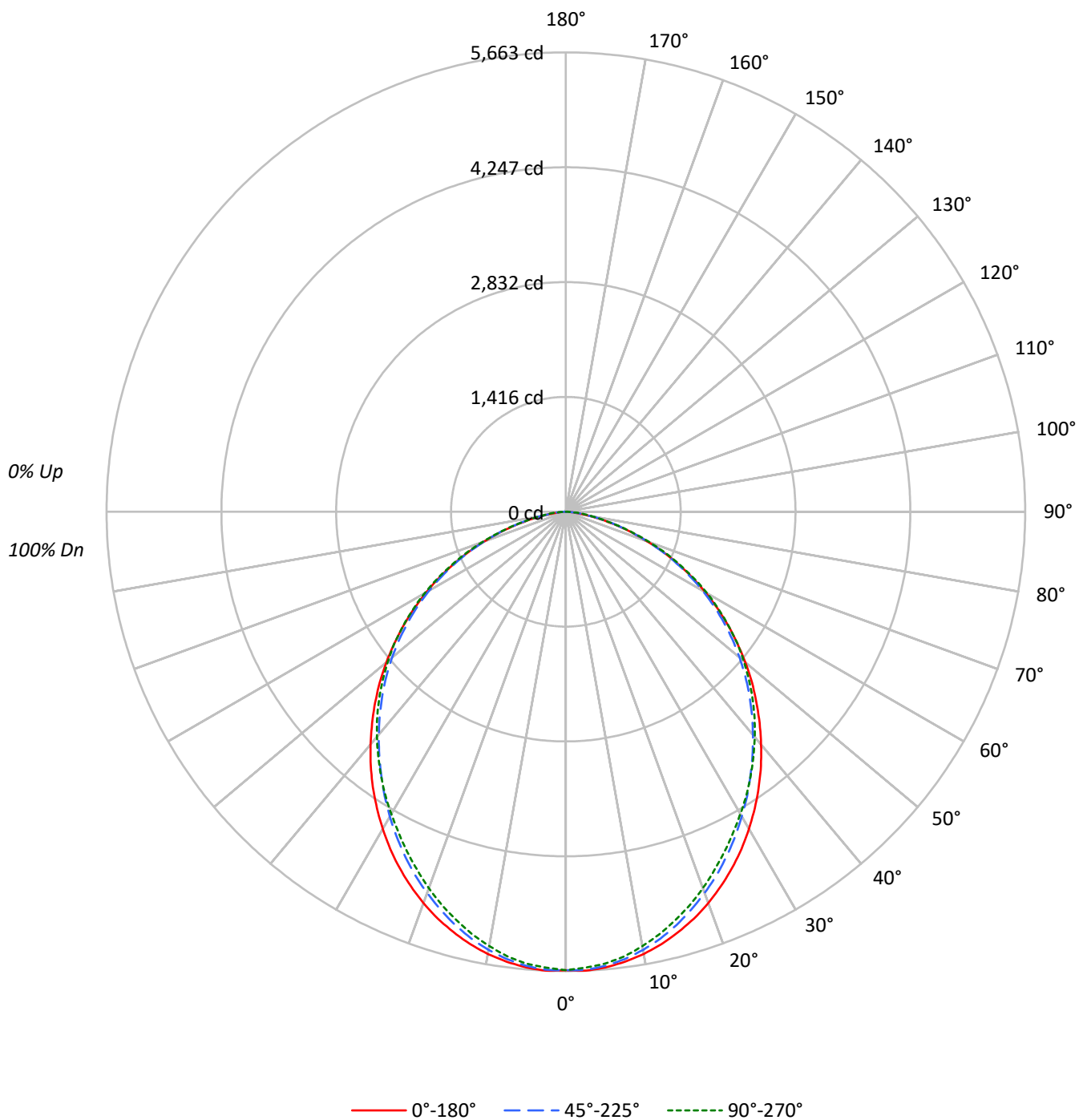
Lumens per Lamp: N/A
Luminaire Lumens: 13694.0 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 157.2
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	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	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°	7605	7605	7605
5°	7615	7589	7552
10°	7563	7494	7429
15°	7471	7345	7259
20°	7350	7161	7071
25°	7197	6960	6867
30°	7015	6741	6684
35°	6811	6516	6524
40°	6576	6302	6363
45°	6324	6086	6194
50°	6048	5852	5986
55°	5730	5578	5736
60°	5349	5240	5419
65°	4868	4799	4950
70°	4209	4217	4320
75°	3360	3464	3495
80°	2286	2477	2565
85°	1187	1714	2223

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6324 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.2	3.9
10°-20°	1485.4	10.8
20°-30°	2167.5	15.8
30°-40°	2508.8	18.3
40°-50°	2499.6	18.3
50°-60°	2150.1	15.7
60°-70°	1505.3	11.0
70°-80°	707.6	5.2
80°-90°	138.4	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°	4184.2	30.6
0°-40°	6693.0	48.9
0°-60°	11342.7	82.8
0°-90°	13694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13694.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5652	5652	5652	5652	5652	
5°	5638	5620	5619	5584	5592	535
15°	5363	5324	5273	5209	5211	1512
25°	4848	4785	4688	4622	4626	2231
35°	4146	4064	3967	3951	3972	2591
45°	3323	3248	3198	3227	3255	2564
55°	2443	2382	2378	2423	2445	2181
65°	1529	1495	1507	1537	1555	1513
75°	646	634	666	671	672	695
85°	77	88	111	134	144	113
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5651.9	5651.9	5651.9	5651.9	5651.9
2.5°	5662.8	5646.6	5651.9	5624.6	5624.7
5°	5638.4	5619.5	5619.0	5583.5	5591.5
7.5°	5595.2	5572.4	5562.2	5521.2	5528.1
10°	5535.4	5506.5	5484.9	5434.1	5437.4
12.5°	5458.6	5424.8	5389.2	5330.0	5335.0
15°	5363.2	5324.3	5272.7	5209.0	5211.2
17.5°	5257.7	5214.3	5143.8	5075.7	5083.6
20°	5133.5	5084.7	5001.5	4930.8	4938.4
22.5°	4995.5	4939.5	4851.9	4781.0	4783.4
25°	4847.8	4785.1	4687.9	4622.0	4625.6
27.5°	4687.7	4617.8	4517.0	4456.7	4464.3
30°	4515.5	4441.4	4338.8	4290.3	4302.0
32.5°	4334.2	4257.5	4156.8	4124.4	4143.3
35°	4146.4	4064.4	3966.8	3950.6	3971.7
37.5°	3950.6	3869.7	3778.9	3778.4	3800.2
40°	3744.1	3666.7	3588.2	3598.3	3622.5
42.5°	3535.8	3460.6	3395.3	3416.6	3442.6
45°	3323.3	3248.2	3198.2	3227.4	3255.1
47.5°	3111.4	3036.5	3000.4	3036.3	3061.2
50°	2889.4	2820.8	2795.7	2836.3	2859.8
52.5°	2664.1	2600.3	2588.5	2633.3	2664.1
55°	2442.8	2382.1	2377.7	2423.4	2445.2
57.5°	2214.7	2164.3	2166.0	2208.0	2230.5
60°	1987.6	1940.6	1947.2	1990.3	2013.8
62.5°	1757.8	1715.9	1728.8	1767.9	1785.4
65°	1529.1	1494.6	1507.4	1537.4	1554.9
67.5°	1302.8	1271.4	1290.2	1322.3	1330.4
70°	1070.0	1046.9	1072.0	1094.9	1098.2
72.5°	854.7	834.1	862.5	877.4	876.5
75°	646.4	633.9	666.4	670.8	672.3
77.5°	456.9	456.9	479.5	484.9	487.7
80°	295.0	304.9	319.7	330.7	331.1
82.5°	166.7	177.4	193.6	219.8	230.1
85°	76.9	88.0	111.0	134.1	144.0
87.5°	25.9	34.3	46.8	50.7	48.3
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	17.98	19.56	18.34	19.87	20.19	18.10	19.69	18.47	20.00	20.31
	3H	19.45	20.87	19.82	21.20	21.56	19.61	21.03	19.99	21.36	21.72
	4H	19.88	21.21	20.28	21.56	21.94	20.05	21.39	20.45	21.74	22.12
	6H	20.09	21.33	20.50	21.69	22.08	20.29	21.53	20.71	21.90	22.29
	8H	20.12	21.30	20.54	21.69	22.09	20.35	21.53	20.78	21.92	22.32
	12H	20.12	21.25	20.55	21.63	22.06	20.39	21.52	20.82	21.90	22.33
4H	2H	18.52	19.86	18.92	20.21	20.59	18.62	19.96	19.02	20.31	20.69
	3H	20.17	21.29	20.58	21.68	22.08	20.32	21.43	20.73	21.83	22.23
	4H	20.69	21.69	21.12	22.10	22.54	20.86	21.87	21.30	22.28	22.72
	6H	20.98	21.85	21.43	22.29	22.75	21.19	22.06	21.65	22.50	22.96
	8H	21.02	21.84	21.49	22.28	22.75	21.27	22.09	21.74	22.53	23.00
	12H	21.04	21.77	21.52	22.25	22.72	21.34	22.07	21.82	22.54	23.02
8H	4H	20.88	21.70	21.34	22.14	22.61	21.04	21.86	21.50	22.30	22.77
	6H	21.23	21.91	21.73	22.40	22.87	21.43	22.11	21.93	22.60	23.07
	8H	21.31	21.91	21.82	22.42	22.91	21.56	22.16	22.07	22.67	23.16
	12H	21.35	21.88	21.85	22.37	22.93	21.67	22.20	22.18	22.69	23.25
12H	4H	20.89	21.61	21.37	22.09	22.56	21.04	21.77	21.52	22.25	22.72
	6H	21.24	21.84	21.75	22.35	22.84	21.43	22.04	21.95	22.55	23.03
	8H	21.35	21.88	21.86	22.37	22.93	21.60	22.13	22.10	22.62	23.18