

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: P1499250

Luminaire Tested: MAE-G-4-120-2HI-STD-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499250
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-4-120-2HI-STD-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

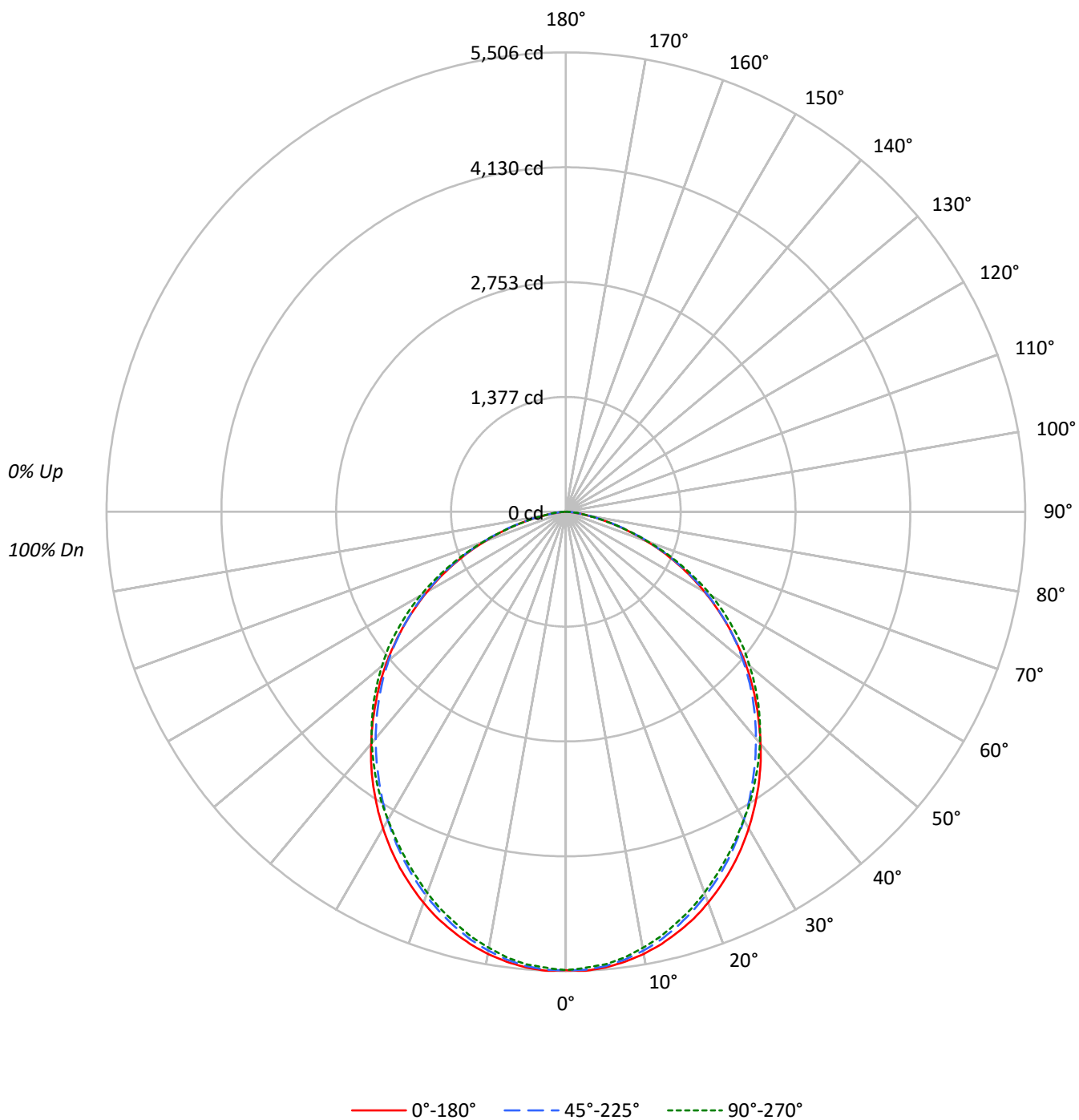
Lumens per Lamp: N/A
Luminaire Lumens: 13434.0 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 157.1
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	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°	7393	7393	7393
5°	7404	7382	7352
10°	7352	7299	7252
15°	7260	7170	7114
20°	7141	7010	6957
25°	6990	6829	6781
30°	6810	6631	6625
35°	6608	6423	6491
40°	6377	6228	6354
45°	6128	6027	6209
50°	5858	5807	6021
55°	5546	5544	5775
60°	5172	5214	5433
65°	4699	4767	4888
70°	4052	4137	4155
75°	3224	3308	3202
80°	2173	2232	2162
85°	1105	1437	1800

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6209 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.0	3.8
10°-20°	1450.1	10.8
20°-30°	2124.5	15.8
30°-40°	2468.6	18.4
40°-50°	2468.9	18.4
50°-60°	2129.5	15.9
60°-70°	1481.6	11.0
70°-80°	672.9	5.0
80°-90°	120.8	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°	4091.6	30.5
0°-40°	6560.3	48.8
0°-60°	11158.6	83.1
0°-90°	13434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13434.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5495	5495	5495	5495	5495	
5°	5482	5461	5465	5437	5443	520
15°	5212	5178	5147	5103	5107	1469
25°	4708	4661	4600	4558	4568	2167
35°	4023	3965	3910	3921	3952	2514
45°	3221	3172	3167	3224	3263	2485
55°	2364	2329	2363	2433	2462	2112
65°	1476	1464	1497	1520	1535	1460
75°	620	618	636	622	616	667
85°	72	79	93	110	117	107
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5494.9	5494.9	5494.9	5494.9	5494.9
2.5°	5506.5	5486.4	5494.9	5473.2	5470.1
5°	5482.2	5460.9	5465.4	5436.7	5443.3
7.5°	5439.9	5416.2	5413.7	5381.9	5388.6
10°	5381.1	5352.7	5342.7	5304.3	5308.0
12.5°	5305.9	5274.7	5255.3	5211.6	5218.4
15°	5212.3	5177.9	5147.4	5102.9	5107.4
17.5°	5109.5	5073.1	5028.2	4981.6	4992.1
20°	4987.3	4948.5	4895.7	4847.0	4858.8
22.5°	4852.3	4808.8	4754.6	4707.0	4714.9
25°	4708.2	4660.9	4599.8	4558.1	4567.6
27.5°	4551.6	4499.1	4438.1	4402.2	4416.5
30°	4383.2	4328.9	4267.9	4244.8	4264.2
32.5°	4206.0	4151.2	4092.9	4087.3	4115.0
35°	4023.0	3964.6	3910.3	3921.4	3951.9
37.5°	3832.6	3775.5	3729.6	3756.6	3788.7
40°	3630.5	3578.3	3545.6	3583.6	3617.6
42.5°	3427.7	3378.1	3358.7	3408.0	3444.8
45°	3220.7	3171.9	3167.2	3223.9	3263.1
47.5°	3015.6	2965.8	2974.1	3037.4	3072.6
50°	2798.5	2755.8	2774.2	2841.2	2876.4
52.5°	2580.7	2541.4	2570.8	2641.6	2682.9
55°	2364.4	2329.2	2363.4	2432.9	2462.0
57.5°	2142.7	2116.8	2154.4	2215.1	2243.1
60°	1922.0	1898.7	1937.6	1993.0	2019.0
62.5°	1698.9	1679.9	1719.6	1763.1	1778.0
65°	1475.8	1464.1	1497.2	1520.5	1535.4
67.5°	1257.0	1245.1	1276.4	1296.1	1299.8
70°	1030.0	1025.7	1051.6	1059.6	1056.2
72.5°	822.0	815.9	836.3	833.5	826.0
75°	620.1	618.2	636.4	621.7	616.0
77.5°	436.5	442.9	447.2	434.4	429.8
80°	280.4	290.7	288.0	283.5	279.0
82.5°	156.9	164.7	166.5	183.2	189.8
85°	71.6	78.7	93.1	109.9	116.6
87.5°	24.2	30.2	38.9	41.5	39.2
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	17.88	19.46	18.24	19.77	20.09	18.19	19.78	18.56	20.09	20.40
	3H	19.34	20.76	19.71	21.09	21.45	19.62	21.05	20.00	21.37	21.73
	4H	19.76	21.09	20.16	21.44	21.82	20.01	21.35	20.41	21.70	22.07
	6H	19.96	21.20	20.37	21.56	21.95	20.19	21.42	20.60	21.79	22.18
	8H	19.99	21.16	20.41	21.55	21.95	20.22	21.40	20.65	21.79	22.19
	12H	19.98	21.11	20.41	21.49	21.92	20.24	21.37	20.67	21.75	22.18
4H	2H	18.45	19.78	18.85	20.13	20.51	18.70	20.04	19.10	20.39	20.77
	3H	20.08	21.19	20.49	21.59	21.99	20.32	21.43	20.73	21.83	22.23
	4H	20.59	21.59	21.02	22.00	22.44	20.79	21.79	21.22	22.21	22.64
	6H	20.87	21.74	21.32	22.18	22.64	21.04	21.91	21.50	22.35	22.81
	8H	20.91	21.72	21.37	22.16	22.63	21.10	21.91	21.56	22.35	22.82
	12H	20.92	21.64	21.40	22.12	22.59	21.13	21.86	21.62	22.34	22.81
8H	4H	20.77	21.58	21.23	22.02	22.49	20.95	21.77	21.42	22.21	22.68
	6H	21.10	21.77	21.60	22.26	22.74	21.26	21.93	21.75	22.42	22.89
	8H	21.17	21.77	21.68	22.28	22.76	21.34	21.94	21.85	22.45	22.94
	12H	21.20	21.73	21.71	22.22	22.78	21.41	21.94	21.92	22.44	23.00
12H	4H	20.77	21.49	21.25	21.97	22.44	20.95	21.68	21.43	22.15	22.62
	6H	21.10	21.70	21.61	22.21	22.69	21.25	21.85	21.76	22.36	22.85
	8H	21.20	21.73	21.71	22.22	22.78	21.37	21.90	21.88	22.39	22.95