

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: P1499712

Luminaire Tested: MAE-G-4-120-3STD-LO-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-3STD-LO-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

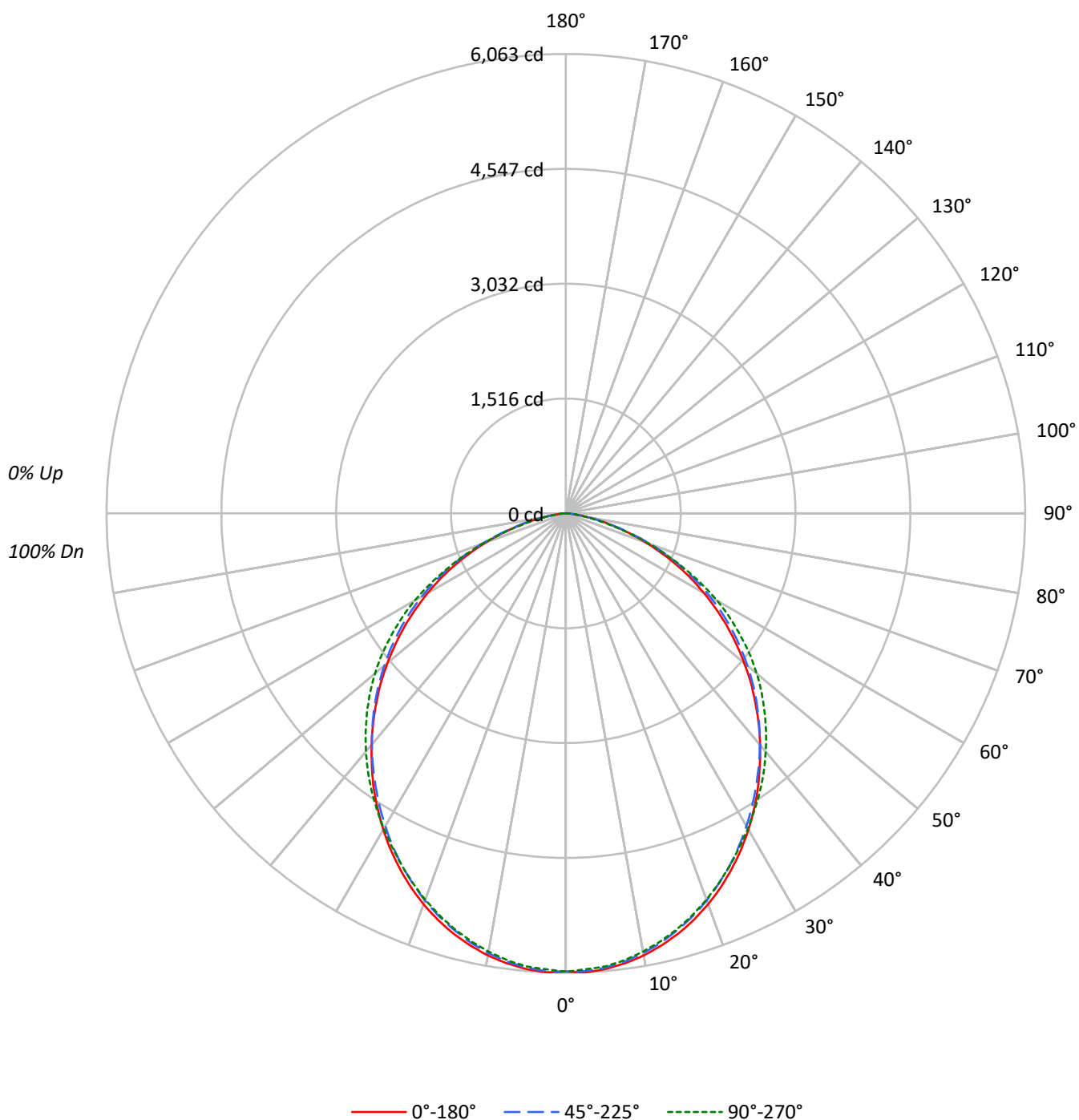
Lumens per Lamp: N/A
Luminaire Lumens: 14970.0 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 150.6
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	88	88	86
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8137	8137	8137
5°	8152	8128	8105
10°	8095	8051	8023
15°	7996	7931	7909
20°	7863	7784	7767
25°	7689	7608	7609
30°	7489	7406	7463
35°	7264	7198	7341
40°	7009	6996	7210
45°	6733	6787	7061
50°	6431	6549	6883
55°	6092	6269	6604
60°	5670	5907	6212
65°	5145	5406	5506
70°	4424	4663	4567
75°	3506	3641	3296
80°	2346	2287	2001
85°	1190	1349	1582

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7061 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.7	3.8
10°-20°	1604.2	10.7
20°-30°	2361.9	15.8
30°-40°	2756.7	18.4
40°-50°	2769.3	18.5
50°-60°	2397.4	16.0
60°-70°	1662.2	11.1
70°-80°	730.0	4.9
80°-90°	118.6	0.8
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°	4535.9	30.3
0°-40°	7292.5	48.7
0°-60°	12459.2	83.2
0°-90°	14970.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14970.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6047	6047	6047	6047	6047	
5°	6036	6008	6018	5994	6001	573
15°	5740	5706	5694	5667	5678	1617
25°	5179	5142	5125	5101	5125	2384
35°	4422	4382	4382	4420	4469	2763
45°	3538	3516	3567	3657	3711	2730
55°	2597	2585	2673	2779	2815	2318
65°	1616	1626	1698	1726	1729	1597
75°	674	688	700	660	634	725
85°	77	80	87	98	102	115
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6047.4	6047.4	6047.4	6047.4	6047.4
2.5°	6063.3	6035.3	6047.4	6029.1	6022.6
5°	6035.7	6007.8	6017.6	5993.9	6001.1
7.5°	5988.7	5960.2	5964.6	5940.0	5947.2
10°	5924.7	5892.3	5892.6	5865.8	5872.1
12.5°	5839.7	5807.5	5802.6	5773.1	5784.1
15°	5740.0	5705.6	5693.5	5666.9	5677.6
17.5°	5624.3	5587.7	5573.8	5542.0	5558.5
20°	5491.4	5453.6	5436.6	5402.3	5424.5
22.5°	5342.7	5304.4	5283.8	5255.6	5279.1
25°	5179.0	5142.2	5124.7	5100.7	5125.4
27.5°	5006.8	4966.1	4950.5	4938.6	4965.5
30°	4820.5	4779.5	4766.8	4765.9	4803.4
32.5°	4623.8	4584.8	4577.6	4595.9	4638.7
35°	4422.2	4381.6	4382.3	4419.8	4469.4
37.5°	4205.2	4174.1	4185.2	4241.7	4292.3
40°	3990.4	3957.9	3983.0	4051.9	4104.7
42.5°	3768.5	3742.1	3777.5	3861.1	3910.8
45°	3538.3	3515.8	3566.9	3656.7	3710.9
47.5°	3313.3	3288.8	3351.6	3448.1	3505.8
50°	3072.4	3056.2	3128.5	3234.0	3288.2
52.5°	2835.0	2819.1	2902.2	3012.3	3063.4
55°	2597.1	2584.8	2672.6	2778.6	2815.2
57.5°	2351.5	2351.3	2439.4	2530.9	2568.1
60°	2107.2	2108.8	2195.2	2276.9	2308.6
62.5°	1862.7	1870.1	1949.5	2012.1	2020.0
65°	1616.0	1626.3	1698.0	1725.6	1729.3
67.5°	1367.1	1383.0	1444.3	1451.9	1447.9
70°	1124.5	1136.0	1185.4	1179.3	1161.0
72.5°	888.7	905.4	931.5	912.1	885.4
75°	674.5	687.8	700.4	660.2	634.0
77.5°	474.9	483.9	481.9	439.2	421.1
80°	302.8	312.6	295.2	270.5	258.3
82.5°	168.1	176.1	161.2	168.4	172.1
85°	77.1	80.3	87.4	98.4	102.5
87.5°	26.3	29.9	35.4	37.4	34.5
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	18.21	19.80	18.58	20.11	20.43	18.75	20.33	19.11	20.64	20.96
	3H	19.65	21.08	20.03	21.40	21.77	20.11	21.53	20.49	21.86	22.22
	4H	20.07	21.40	20.47	21.75	22.13	20.44	21.78	20.84	22.13	22.50
	6H	20.26	21.50	20.67	21.86	22.25	20.56	21.80	20.97	22.16	22.55
	8H	20.28	21.46	20.71	21.85	22.25	20.57	21.75	21.00	22.14	22.54
	12H	20.28	21.41	20.71	21.79	22.22	20.58	21.70	21.00	22.08	22.51
4H	2H	18.82	20.15	19.22	20.50	20.88	19.25	20.58	19.65	20.93	21.31
	3H	20.43	21.54	20.84	21.94	22.34	20.79	21.90	21.20	22.30	22.70
	4H	20.93	21.92	21.36	22.34	22.78	21.20	22.20	21.63	22.62	23.05
	6H	21.19	22.06	21.65	22.50	22.96	21.38	22.25	21.84	22.69	23.15
	8H	21.23	22.04	21.69	22.48	22.95	21.41	22.22	21.87	22.66	23.13
	12H	21.24	21.96	21.72	22.44	22.91	21.42	22.15	21.91	22.63	23.10
8H	4H	21.10	21.91	21.56	22.35	22.82	21.35	22.16	21.82	22.61	23.07
	6H	21.42	22.08	21.91	22.57	23.05	21.57	22.24	22.07	22.73	23.21
	8H	21.48	22.07	21.99	22.58	23.07	21.62	22.22	22.13	22.72	23.21
	12H	21.50	22.03	22.01	22.52	23.09	21.66	22.19	22.17	22.68	23.24
12H	4H	21.09	21.82	21.57	22.29	22.77	21.35	22.07	21.83	22.55	23.02
	6H	21.40	22.00	21.92	22.51	23.00	21.56	22.16	22.07	22.67	23.16
	8H	21.49	22.02	22.00	22.51	23.08	21.64	22.16	22.15	22.66	23.22