

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: P1499736

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499736
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-STD-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

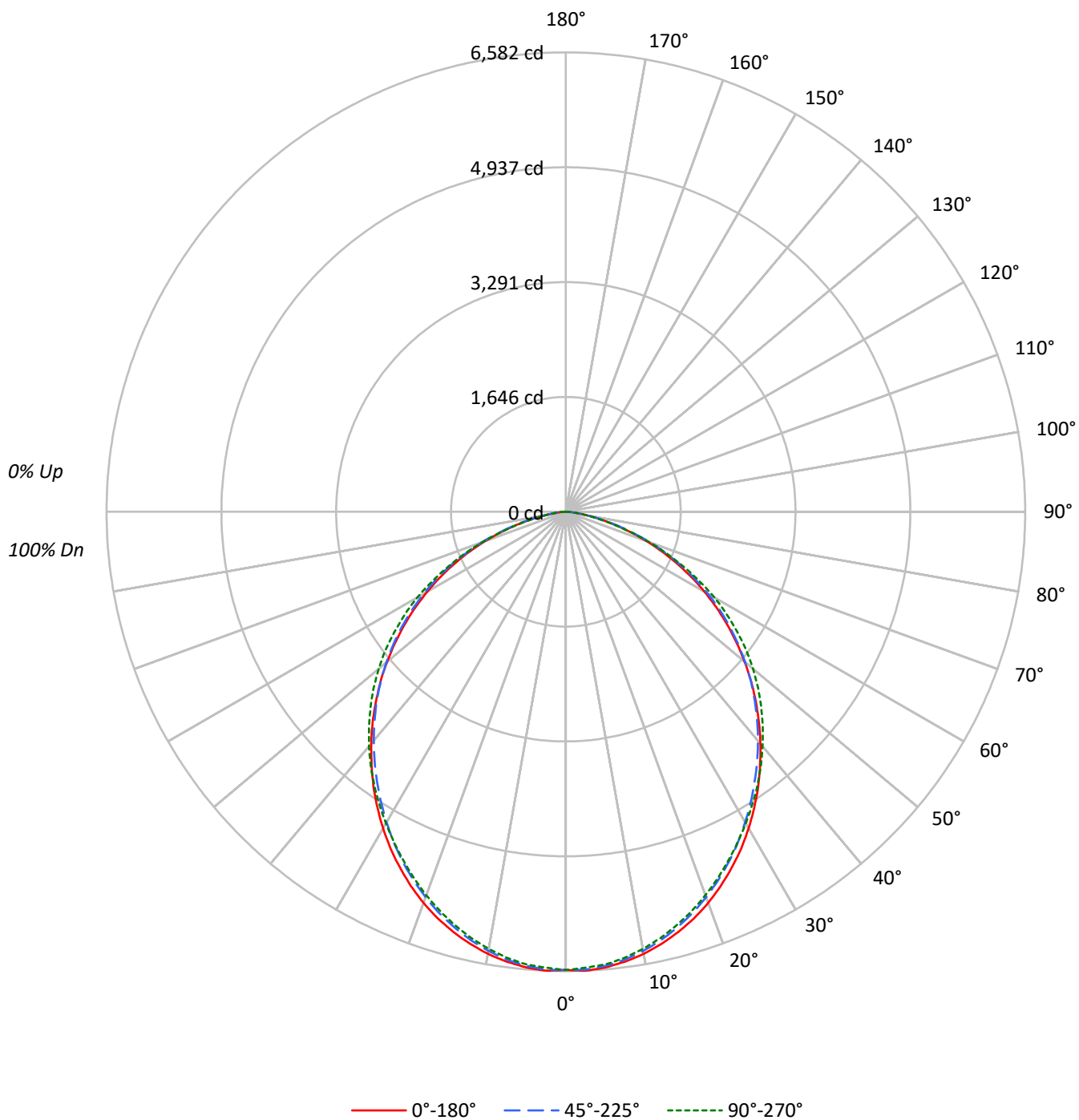
Lumens per Lamp: N/A
Luminaire Lumens: 16162.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 170.9
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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8834	8834	8834
5°	8850	8821	8793
10°	8788	8730	8688
15°	8682	8589	8544
20°	8539	8416	8372
25°	8352	8213	8183
30°	8138	7983	8009
35°	7895	7749	7861
40°	7621	7521	7704
45°	7323	7287	7531
50°	6997	7023	7326
55°	6630	6717	7025
60°	6175	6325	6622
65°	5609	5793	5920
70°	4831	5030	4987
75°	3838	3990	3720
80°	2582	2607	2412
85°	1326	1627	1976

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7531 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.1	3.8
10°-20°	1737.2	10.7
20°-30°	2551.6	15.8
30°-40°	2971.1	18.4
40°-50°	2978.1	18.4
50°-60°	2573.9	15.9
60°-70°	1790.6	11.1
70°-80°	802.8	5.0
80°-90°	138.5	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°	4907.0	30.4
0°-40°	7878.1	48.7
0°-60°	13430.1	83.1
0°-90°	16162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16162.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6566	6566	6566	6566	6566	
5°	6552	6524	6531	6501	6510	622
15°	6233	6193	6166	6124	6134	1756
25°	5626	5576	5532	5490	5512	2590
35°	4807	4747	4718	4740	4786	3003
45°	3848	3806	3830	3907	3958	2969
55°	2826	2796	2863	2960	2995	2523
65°	1762	1758	1820	1853	1859	1741
75°	738	745	768	738	716	793
85°	86	92	105	121	128	127
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6565.5	6565.5	6565.5	6565.5	6565.5
2.5°	6581.9	6554.7	6565.5	6542.2	6537.3
5°	6552.4	6524.2	6531.4	6501.3	6510.0
7.5°	6501.5	6471.7	6471.4	6438.7	6446.6
10°	6432.4	6397.5	6390.1	6352.9	6359.2
12.5°	6340.5	6304.5	6288.4	6246.0	6256.6
15°	6232.6	6192.9	6165.7	6124.1	6133.8
17.5°	6107.5	6063.8	6031.0	5982.6	5998.3
20°	5963.9	5917.0	5877.7	5826.3	5847.0
22.5°	5803.0	5753.8	5708.8	5662.9	5683.7
25°	5625.9	5576.3	5532.2	5490.5	5512.3
27.5°	5439.7	5384.3	5340.1	5310.6	5334.7
30°	5238.1	5181.0	5138.4	5120.4	5154.8
32.5°	5025.3	4968.8	4931.5	4933.2	4972.9
35°	4806.7	4747.3	4717.7	4739.6	4785.8
37.5°	4571.7	4521.9	4502.3	4544.2	4591.2
40°	4338.7	4286.9	4281.9	4336.9	4386.4
42.5°	4097.8	4052.2	4058.4	4128.9	4175.0
45°	3848.4	3806.2	3829.7	3907.3	3957.6
47.5°	3603.5	3560.1	3596.6	3681.4	3735.7
50°	3342.9	3307.8	3355.2	3450.1	3499.9
52.5°	3084.1	3050.5	3110.9	3210.9	3258.9
55°	2826.5	2796.2	2863.4	2960.4	2994.8
57.5°	2560.0	2543.0	2612.4	2697.4	2733.3
60°	2294.8	2280.3	2350.3	2428.8	2461.0
62.5°	2029.2	2021.3	2087.6	2150.8	2161.4
65°	1761.8	1757.5	1819.5	1853.0	1859.4
67.5°	1491.5	1494.8	1551.0	1567.6	1566.5
70°	1228.0	1227.9	1278.7	1282.4	1267.7
72.5°	971.8	979.3	1011.7	1002.8	979.5
75°	738.2	744.9	767.5	737.7	715.5
77.5°	520.8	526.5	535.8	503.1	489.2
80°	333.2	343.5	336.5	320.8	311.3
82.5°	186.1	196.5	190.4	204.6	211.0
85°	85.9	92.0	105.4	121.4	128.0
87.5°	29.2	34.8	43.2	46.2	43.0
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	18.50	20.08	18.87	20.40	20.71	18.92	20.50	19.28	20.82	21.13
	3H	19.95	21.37	20.32	21.70	22.06	20.33	21.75	20.70	22.08	22.44
	4H	20.36	21.70	20.76	22.05	22.43	20.69	22.03	21.09	22.38	22.75
	6H	20.57	21.80	20.98	22.17	22.56	20.84	22.08	21.25	22.44	22.83
	8H	20.59	21.77	21.02	22.16	22.56	20.87	22.04	21.29	22.43	22.83
	12H	20.59	21.71	21.02	22.10	22.53	20.88	22.00	21.31	22.39	22.81
4H	2H	19.09	20.43	19.49	20.77	21.15	19.43	20.77	19.83	21.11	21.49
	3H	20.71	21.82	21.12	22.22	22.62	21.02	22.13	21.43	22.53	22.93
	4H	21.21	22.21	21.64	22.63	23.06	21.47	22.47	21.90	22.88	23.32
	6H	21.49	22.36	21.94	22.80	23.26	21.69	22.55	22.14	23.00	23.45
	8H	21.53	22.34	21.99	22.78	23.25	21.73	22.54	22.19	22.98	23.45
	12H	21.54	22.26	22.02	22.74	23.21	21.75	22.48	22.24	22.96	23.43
8H	4H	21.39	22.21	21.86	22.65	23.12	21.63	22.44	22.09	22.88	23.35
	6H	21.72	22.39	22.21	22.88	23.36	21.89	22.56	22.39	23.05	23.53
	8H	21.78	22.38	22.30	22.89	23.38	21.96	22.56	22.47	23.06	23.55
	12H	21.82	22.34	22.32	22.84	23.40	22.02	22.54	22.52	23.04	23.60
12H	4H	21.39	22.12	21.87	22.59	23.06	21.62	22.35	22.10	22.82	23.29
	6H	21.71	22.31	22.22	22.82	23.31	21.88	22.48	22.39	22.99	23.48
	8H	21.81	22.34	22.32	22.83	23.39	21.98	22.51	22.49	23.00	23.57