

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: P1499538

Luminaire Tested: MAE-G-4-120-3HI-STD-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499538
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-4-120-3HI-STD-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

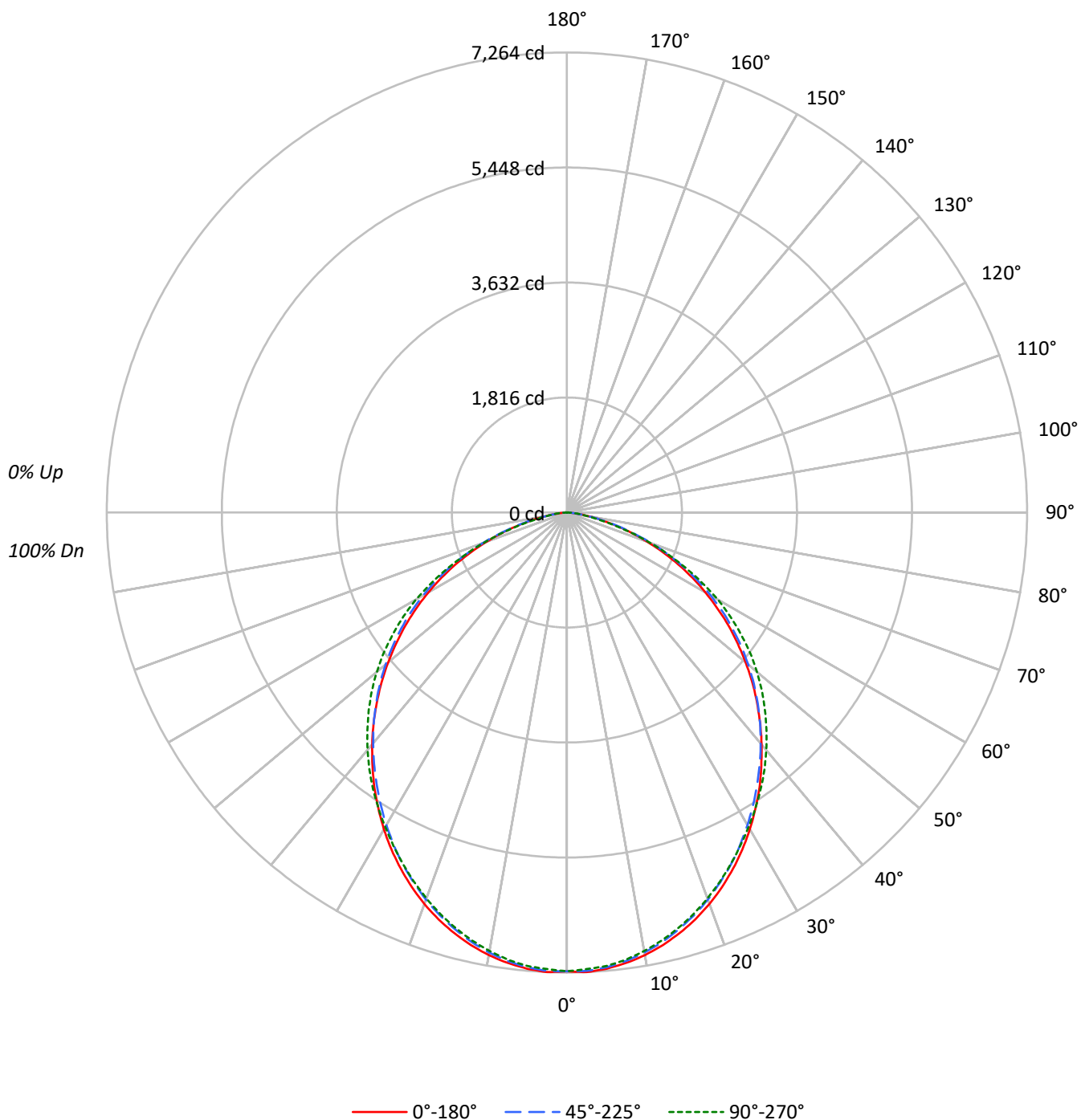
Lumens per Lamp: N/A
Luminaire Lumens: 17905.0 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 201.4
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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	93	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°	9748	9748	9748
5°	9766	9736	9708
10°	9697	9641	9604
15°	9579	9494	9461
20°	9421	9314	9286
25°	9212	9099	9091
30°	8974	8854	8911
35°	8705	8602	8760
40°	8400	8357	8598
45°	8070	8105	8416
50°	7709	7818	8199
55°	7304	7482	7866
60°	6799	7048	7403
65°	6171	6452	6577
70°	5308	5576	5480
75°	4211	4374	3994
80°	2822	2779	2474
85°	1436	1669	1976

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8416 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.4	3.8
10°-20°	1920.4	10.7
20°-30°	2825.5	15.8
30°-40°	3295.5	18.4
40°-50°	3308.6	18.5
50°-60°	2862.8	16.0
60°-70°	1986.8	11.1
70°-80°	877.8	4.9
80°-90°	145.1	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°	5428.3	30.3
0°-40°	8723.8	48.7
0°-60°	14895.3	83.2
0°-90°	17905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17905.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7245	7245	7245	7245	7245	
5°	7230	7198	7208	7179	7188	686
15°	6877	6835	6816	6780	6792	1938
25°	6205	6158	6129	6096	6124	2857
35°	5300	5246	5237	5276	5333	3311
45°	4241	4208	4260	4361	4423	3272
55°	3114	3093	3190	3311	3353	2779
65°	1938	1946	2026	2061	2066	1916
75°	810	823	841	798	768	870
85°	93	98	108	122	128	138
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7244.6	7244.6	7244.6	7244.6	7244.6
2.5°	7263.5	7230.8	7244.6	7221.5	7214.5
5°	7230.5	7197.8	7208.5	7178.6	7187.7
7.5°	7174.2	7140.4	7144.1	7112.6	7121.5
10°	7097.7	7058.9	7056.8	7022.2	7029.5
12.5°	6996.0	6957.1	6947.8	6909.2	6922.0
15°	6876.7	6834.7	6815.7	6779.9	6792.0
17.5°	6738.3	6693.1	6670.9	6628.3	6647.4
20°	6579.3	6532.0	6505.1	6459.4	6485.1
22.5°	6401.4	6353.0	6321.0	6282.5	6309.1
25°	6205.4	6158.1	6129.3	6095.6	6123.6
27.5°	5999.3	5946.9	5919.8	5900.0	5930.8
30°	5776.4	5723.2	5698.9	5692.4	5735.3
32.5°	5540.9	5489.8	5471.7	5487.8	5537.0
35°	5299.5	5246.0	5237.1	5276.1	5333.1
37.5°	5039.7	4997.4	5000.7	5062.1	5120.3
40°	4782.5	4738.3	4758.1	4834.4	4895.2
42.5°	4516.7	4479.6	4511.8	4605.5	4662.7
45°	4241.0	4208.4	4259.5	4360.7	4423.0
47.5°	3971.3	3936.7	4001.8	4111.0	4177.6
50°	3682.9	3658.1	3734.7	3854.9	3917.0
52.5°	3398.2	3374.0	3464.1	3589.8	3648.7
55°	3113.5	3093.4	3189.6	3310.9	3353.1
57.5°	2819.2	2813.7	2910.8	3016.0	3059.2
60°	2526.6	2523.4	2619.3	2713.9	2751.2
62.5°	2233.7	2237.5	2326.3	2399.8	2409.9
65°	1938.3	1945.7	2026.5	2060.7	2065.9
67.5°	1640.0	1654.7	1724.8	1736.6	1732.9
70°	1349.3	1359.3	1417.4	1413.5	1393.1
72.5°	1066.9	1083.4	1116.0	1096.7	1066.5
75°	810.0	823.4	841.3	797.5	768.2
77.5°	570.6	580.0	581.2	534.6	514.7
80°	364.2	375.7	358.7	332.7	319.3
82.5°	202.5	212.7	198.1	208.6	213.9
85°	93.0	97.7	108.1	122.4	128.0
87.5°	31.7	36.6	43.9	46.5	43.1
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	18.84	20.43	19.21	20.74	21.05	19.34	20.93	19.71	21.24	21.55
	3H	20.28	21.71	20.66	22.03	22.40	20.72	22.14	21.09	22.47	22.83
	4H	20.70	22.03	21.10	22.38	22.76	21.06	22.40	21.46	22.74	23.12
	6H	20.89	22.13	21.31	22.50	22.89	21.19	22.42	21.60	22.79	23.18
	8H	20.92	22.10	21.34	22.48	22.88	21.20	22.38	21.63	22.77	23.17
	12H	20.91	22.04	21.34	22.42	22.85	21.21	22.33	21.64	22.72	23.14
4H	2H	19.44	20.78	19.84	21.13	21.50	19.84	21.18	20.24	21.53	21.91
	3H	21.05	22.16	21.46	22.56	22.96	21.40	22.51	21.81	22.91	23.31
	4H	21.55	22.55	21.99	22.97	23.40	21.82	22.82	22.26	23.24	23.67
	6H	21.82	22.69	22.28	23.13	23.59	22.02	22.88	22.47	23.33	23.78
	8H	21.86	22.67	22.32	23.11	23.58	22.04	22.85	22.51	23.30	23.76
	12H	21.87	22.59	22.35	23.07	23.54	22.06	22.79	22.55	23.27	23.74
8H	4H	21.73	22.54	22.19	22.98	23.45	21.98	22.79	22.44	23.23	23.70
	6H	22.05	22.72	22.54	23.21	23.68	22.21	22.88	22.70	23.37	23.84
	8H	22.11	22.71	22.62	23.22	23.70	22.26	22.86	22.77	23.37	23.85
	12H	22.14	22.67	22.65	23.16	23.72	22.31	22.83	22.81	23.32	23.89
12H	4H	21.72	22.45	22.20	22.93	23.40	21.97	22.70	22.45	23.17	23.64
	6H	22.04	22.64	22.55	23.15	23.63	22.20	22.80	22.71	23.31	23.79
	8H	22.13	22.66	22.64	23.15	23.71	22.28	22.81	22.79	23.30	23.86