

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: P1499520

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499520
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-LO-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

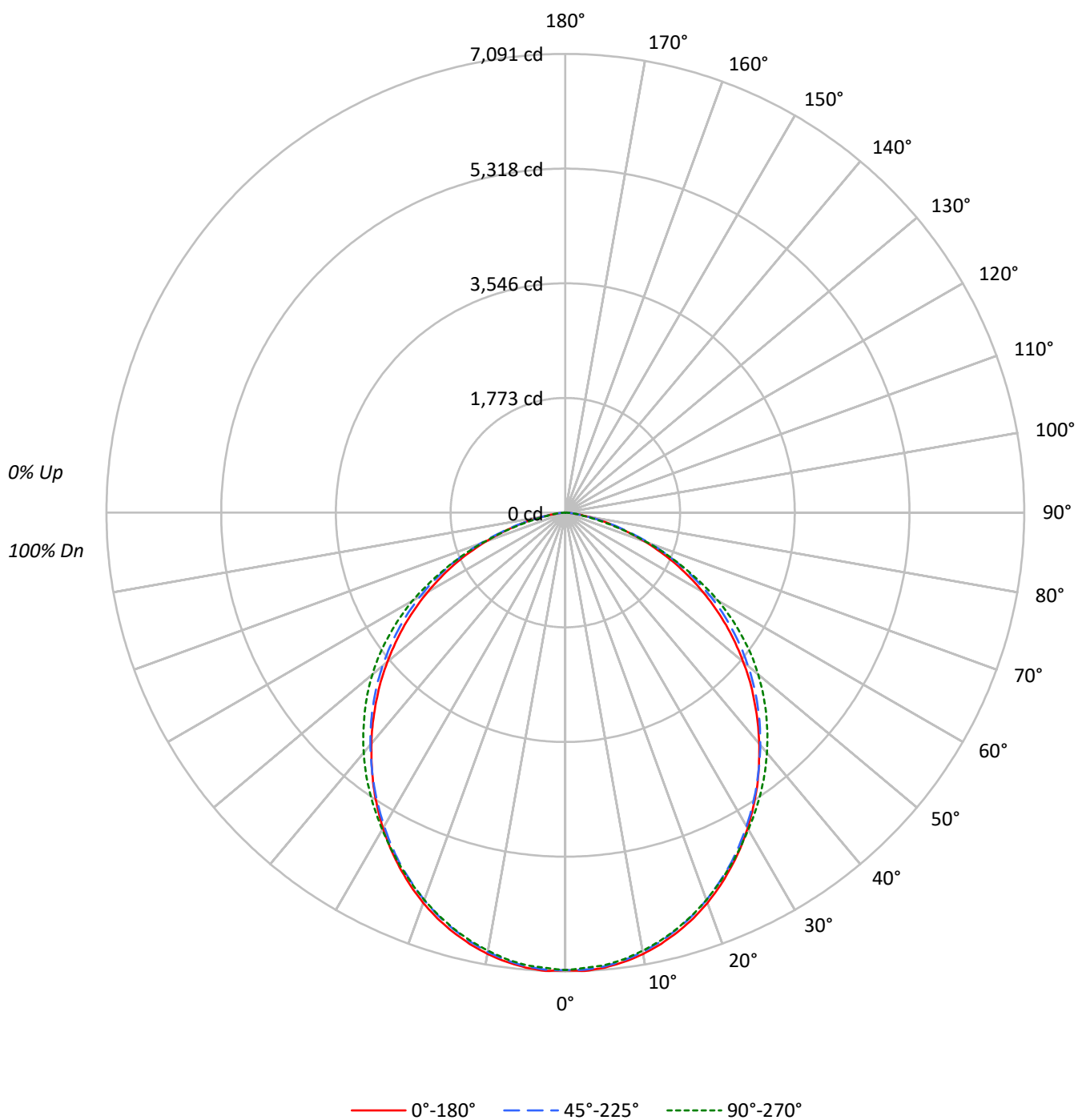
Lumens per Lamp: N/A
Luminaire Lumens: 17566.0 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 181.1
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	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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	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	28	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9515	9515	9515
5°	9533	9506	9483
10°	9466	9421	9396
15°	9349	9289	9276
20°	9193	9127	9123
25°	8988	8928	8950
30°	8753	8698	8789
35°	8488	8461	8657
40°	8189	8230	8513
45°	7864	7991	8348
50°	7510	7715	8146
55°	7113	7391	7819
60°	6618	6967	7346
65°	6001	6372	6477
70°	5154	5475	5322
75°	4080	4233	3760
80°	2721	2592	2181
85°	1369	1470	1677

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8348 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.5	3.8
10°-20°	1878.9	10.7
20°-30°	2770.5	15.8
30°-40°	3238.0	18.4
40°-50°	3257.4	18.5
50°-60°	2822.7	16.1
60°-70°	1953.1	11.1
70°-80°	846.9	4.8
80°-90°	132.1	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°	5315.8	30.3
0°-40°	8553.9	48.7
0°-60°	14633.9	83.3
0°-90°	17566.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17566.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7072	7072	7072	7072	7072	
5°	7058	7024	7038	7013	7021	670
15°	6712	6673	6668	6646	6659	1891
25°	6054	6018	6014	5996	6028	2787
35°	5168	5130	5151	5208	5271	3228
45°	4133	4118	4200	4318	4387	3189
55°	3032	3029	3151	3287	3333	2707
65°	1885	1907	2002	2032	2034	1863
75°	785	806	814	758	723	843
85°	89	91	95	105	109	133
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7071.7	7071.7	7071.7	7071.7	7071.7
2.5°	7090.9	7056.0	7071.7	7052.6	7043.5
5°	7058.3	7024.2	7038.1	7013.2	7021.1
7.5°	7003.2	6969.0	6977.7	6952.9	6961.3
10°	6928.2	6890.0	6895.5	6869.7	6877.4
12.5°	6828.4	6791.5	6793.0	6765.4	6779.2
15°	6711.7	6673.0	6668.3	6645.7	6659.4
17.5°	6576.1	6535.9	6531.5	6503.5	6524.2
20°	6420.2	6379.8	6374.0	6343.1	6371.6
22.5°	6246.0	6206.2	6197.2	6174.4	6205.1
25°	6054.1	6017.5	6013.7	5996.2	6028.4
27.5°	5852.2	5812.0	5812.1	5809.1	5844.1
30°	5634.0	5594.4	5598.7	5609.0	5657.1
32.5°	5403.4	5367.3	5378.5	5412.0	5466.6
35°	5167.5	5130.1	5151.2	5207.6	5270.7
37.5°	4913.3	4887.6	4921.7	5000.7	5065.3
40°	4662.1	4634.9	4685.8	4779.6	4846.7
42.5°	4402.5	4382.9	4445.8	4557.1	4620.6
45°	4133.0	4118.5	4199.7	4317.9	4387.0
47.5°	3870.3	3852.9	3947.4	4073.5	4146.6
50°	3587.9	3580.8	3685.9	3822.5	3891.8
52.5°	3311.0	3303.4	3420.3	3562.2	3627.1
55°	3032.4	3029.3	3150.7	3286.8	3333.2
57.5°	2745.1	2756.0	2876.5	2993.2	3039.6
60°	2459.3	2472.1	2589.0	2691.4	2729.9
62.5°	2173.6	2192.9	2299.1	2375.4	2383.3
65°	1884.8	1907.2	2001.6	2031.5	2034.3
67.5°	1593.7	1621.8	1700.3	1703.6	1696.8
70°	1310.1	1332.1	1391.7	1377.8	1352.9
72.5°	1034.6	1061.2	1089.0	1058.3	1023.2
75°	784.9	805.5	814.3	758.0	723.3
77.5°	551.9	565.1	555.1	496.0	471.1
80°	351.2	362.8	334.5	298.2	281.5
82.5°	194.1	202.4	178.3	182.4	185.2
85°	88.7	90.7	95.2	105.2	108.6
87.5°	30.3	33.5	38.2	40.0	36.6
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	18.76	20.34	19.12	20.65	20.97	19.36	20.94	19.72	21.25	21.57
	3H	20.19	21.62	20.57	21.94	22.30	20.70	22.12	21.07	22.45	22.81
	4H	20.60	21.94	21.00	22.29	22.66	21.01	22.35	21.41	22.69	23.07
	6H	20.79	22.03	21.21	22.40	22.79	21.11	22.35	21.52	22.71	23.10
	8H	20.82	21.99	21.24	22.38	22.78	21.12	22.29	21.54	22.68	23.08
	12H	20.81	21.94	21.24	22.32	22.75	21.11	22.24	21.54	22.62	23.05
4H	2H	19.37	20.71	19.77	21.05	21.43	19.85	21.19	20.25	21.54	21.92
	3H	20.97	22.08	21.38	22.48	22.88	21.37	22.48	21.78	22.88	23.28
	4H	21.47	22.47	21.90	22.88	23.32	21.76	22.76	22.19	23.17	23.61
	6H	21.73	22.60	22.19	23.04	23.50	21.92	22.79	22.37	23.23	23.69
	8H	21.77	22.58	22.23	23.02	23.49	21.93	22.74	22.40	23.19	23.65
	12H	21.77	22.50	22.26	22.97	23.45	21.94	22.67	22.42	23.14	23.61
8H	4H	21.64	22.45	22.10	22.89	23.36	21.91	22.72	22.37	23.16	23.63
	6H	21.95	22.62	22.44	23.11	23.58	22.10	22.77	22.59	23.26	23.73
	8H	22.01	22.60	22.52	23.11	23.60	22.13	22.73	22.64	23.24	23.72
	12H	22.03	22.56	22.54	23.05	23.61	22.16	22.69	22.67	23.18	23.74
12H	4H	21.63	22.35	22.11	22.83	23.30	21.90	22.62	22.38	23.10	23.57
	6H	21.93	22.53	22.45	23.04	23.53	22.09	22.68	22.60	23.19	23.68
	8H	22.02	22.55	22.53	23.04	23.60	22.15	22.67	22.66	23.17	23.73