

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: P1499220

Luminaire Tested: MAE-G-4-120-2HI-HI-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499220
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-HI-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

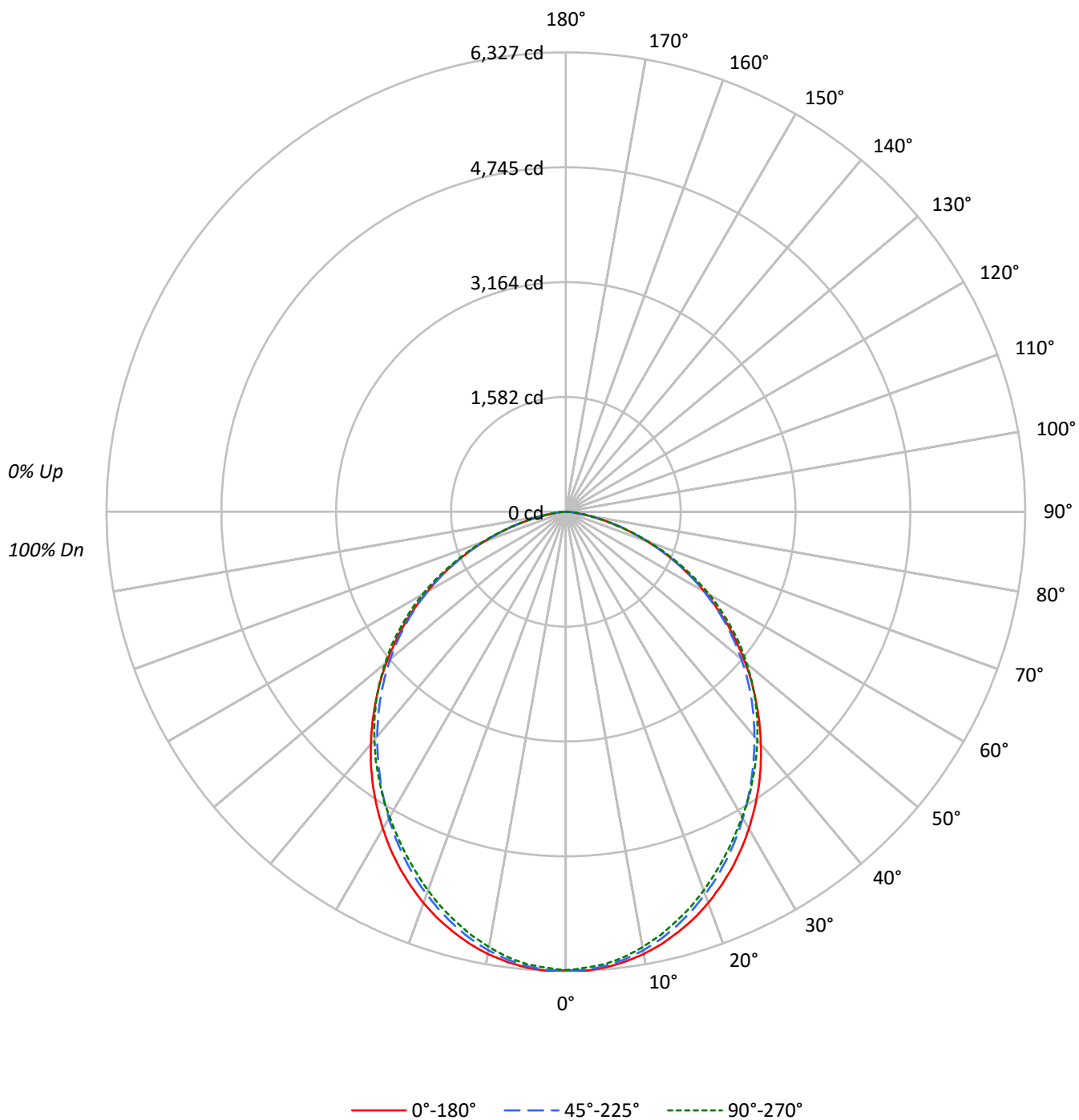
Lumens per Lamp: N/A
Luminaire Lumens: 15370.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 177.5
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	92	90	91	89	88	88	88	85
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	61
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	41
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	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	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8496	8496	8496
5°	8509	8481	8443
10°	8449	8380	8317
15°	8345	8223	8143
20°	8209	8029	7948
25°	8036	7812	7733
30°	7832	7576	7542
35°	7601	7331	7376
40°	7337	7100	7207
45°	7054	6863	7030
50°	6744	6607	6806
55°	6388	6303	6525
60°	5959	5924	6151
65°	5419	5421	5575
70°	4679	4733	4801
75°	3728	3836	3790
80°	2525	2664	2672
85°	1297	1780	2272

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7054 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.8	3.9
10°-20°	1663.1	10.8
20°-30°	2431.7	15.8
30°-40°	2820.2	18.3
40°-50°	2815.3	18.3
50°-60°	2425.1	15.8
60°-70°	1692.4	11.0
70°-80°	781.8	5.1
80°-90°	146.5	1.0
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°	4688.6	30.5
0°-40°	7508.8	48.9
0°-60°	12749.3	82.9
0°-90°	15370.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15370.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6314	6314	6314	6314	6314	
5°	6300	6277	6279	6243	6251	598
15°	5991	5949	5903	5842	5846	1689
25°	5413	5351	5262	5202	5209	2492
35°	4628	4549	4463	4461	4490	2892
45°	3707	3637	3607	3656	3694	2860
55°	2723	2669	2687	2752	2782	2432
65°	1702	1676	1703	1733	1751	1684
75°	717	709	738	732	729	772
85°	84	94	115	138	147	125
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6314.5	6314.5	6314.5	6314.5	6314.5
2.5°	6327.3	6306.7	6314.5	6286.8	6285.1
5°	6299.7	6276.9	6279.2	6243.0	6251.3
7.5°	6251.3	6224.9	6217.7	6176.7	6184.4
10°	6184.1	6151.5	6133.9	6083.6	6087.6
12.5°	6098.0	6061.2	6030.3	5972.3	5978.9
15°	5990.8	5949.4	5903.2	5842.4	5846.1
17.5°	5872.9	5827.8	5762.9	5698.3	5708.7
20°	5733.2	5683.8	5607.3	5540.0	5551.1
22.5°	5578.5	5522.4	5442.7	5375.9	5381.9
25°	5413.2	5351.3	5262.1	5201.7	5209.2
27.5°	5233.8	5164.8	5073.9	5019.8	5032.4
30°	5040.9	4968.4	4876.6	4836.5	4854.2
32.5°	4837.8	4763.7	4674.4	4653.3	4679.9
35°	4627.7	4548.6	4463.4	4460.9	4490.4
37.5°	4408.9	4331.1	4254.5	4270.1	4300.8
40°	4177.4	4104.4	4042.3	4070.1	4103.2
42.5°	3944.5	3874.3	3827.2	3867.7	3903.5
45°	3706.9	3637.2	3607.0	3656.2	3694.4
47.5°	3470.7	3400.4	3385.6	3442.3	3476.6
50°	3222.0	3159.3	3156.4	3217.8	3251.3
52.5°	2970.9	2913.0	2923.8	2989.8	3030.8
55°	2723.0	2669.1	2686.8	2752.5	2781.5
57.5°	2468.2	2425.5	2448.5	2507.0	2535.6
60°	2214.5	2175.1	2201.6	2257.6	2285.7
62.5°	1958.1	1923.8	1954.2	2001.1	2019.4
65°	1702.0	1676.3	1702.6	1732.8	1751.1
67.5°	1449.9	1425.7	1454.5	1483.5	1490.2
70°	1189.4	1174.3	1203.1	1220.4	1220.3
72.5°	949.7	934.8	962.3	968.8	963.9
75°	717.2	709.3	737.8	731.6	729.1
77.5°	506.0	509.7	524.6	520.0	518.9
80°	325.9	337.3	343.8	347.1	344.9
82.5°	183.1	193.6	203.5	227.7	237.2
85°	84.0	94.3	115.3	137.8	147.2
87.5°	28.4	36.5	48.5	52.0	49.3
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	18.36	19.94	18.73	20.26	20.57	18.58	20.17	18.95	20.48	20.80
	3H	19.83	21.25	20.20	21.58	21.94	20.05	21.48	20.43	21.80	22.16
	4H	20.25	21.59	20.65	21.94	22.31	20.47	21.80	20.87	22.15	22.53
	6H	20.46	21.69	20.87	22.06	22.45	20.67	21.91	21.09	22.28	22.67
	8H	20.48	21.66	20.91	22.05	22.45	20.72	21.90	21.15	22.29	22.69
	12H	20.48	21.61	20.91	21.99	22.42	20.75	21.88	21.18	22.26	22.69
4H	2H	18.92	20.26	19.32	20.61	20.98	19.10	20.44	19.50	20.79	21.16
	3H	20.56	21.67	20.97	22.07	22.47	20.75	21.87	21.16	22.26	22.67
	4H	21.07	22.07	21.50	22.49	22.92	21.26	22.26	21.69	22.68	23.11
	6H	21.36	22.23	21.81	22.67	23.13	21.55	22.42	22.00	22.86	23.32
	8H	21.40	22.21	21.86	22.66	23.12	21.62	22.43	22.08	22.87	23.34
	12H	21.41	22.14	21.89	22.62	23.09	21.67	22.39	22.15	22.87	23.34
8H	4H	21.26	22.07	21.72	22.52	22.98	21.43	22.25	21.89	22.69	23.15
	6H	21.60	22.27	22.10	22.76	23.24	21.78	22.45	22.27	22.94	23.41
	8H	21.67	22.27	22.18	22.78	23.27	21.88	22.48	22.39	22.99	23.48
	12H	21.71	22.24	22.22	22.73	23.29	21.97	22.50	22.48	22.99	23.56
12H	4H	21.26	21.99	21.74	22.46	22.93	21.43	22.16	21.91	22.63	23.10
	6H	21.60	22.20	22.11	22.71	23.20	21.77	22.38	22.29	22.88	23.37
	8H	21.71	22.24	22.21	22.73	23.29	21.91	22.44	22.42	22.94	23.50