

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: P1499256

Luminaire Tested: MAE-G-4-120-2HI-STD-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499256
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-STD-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

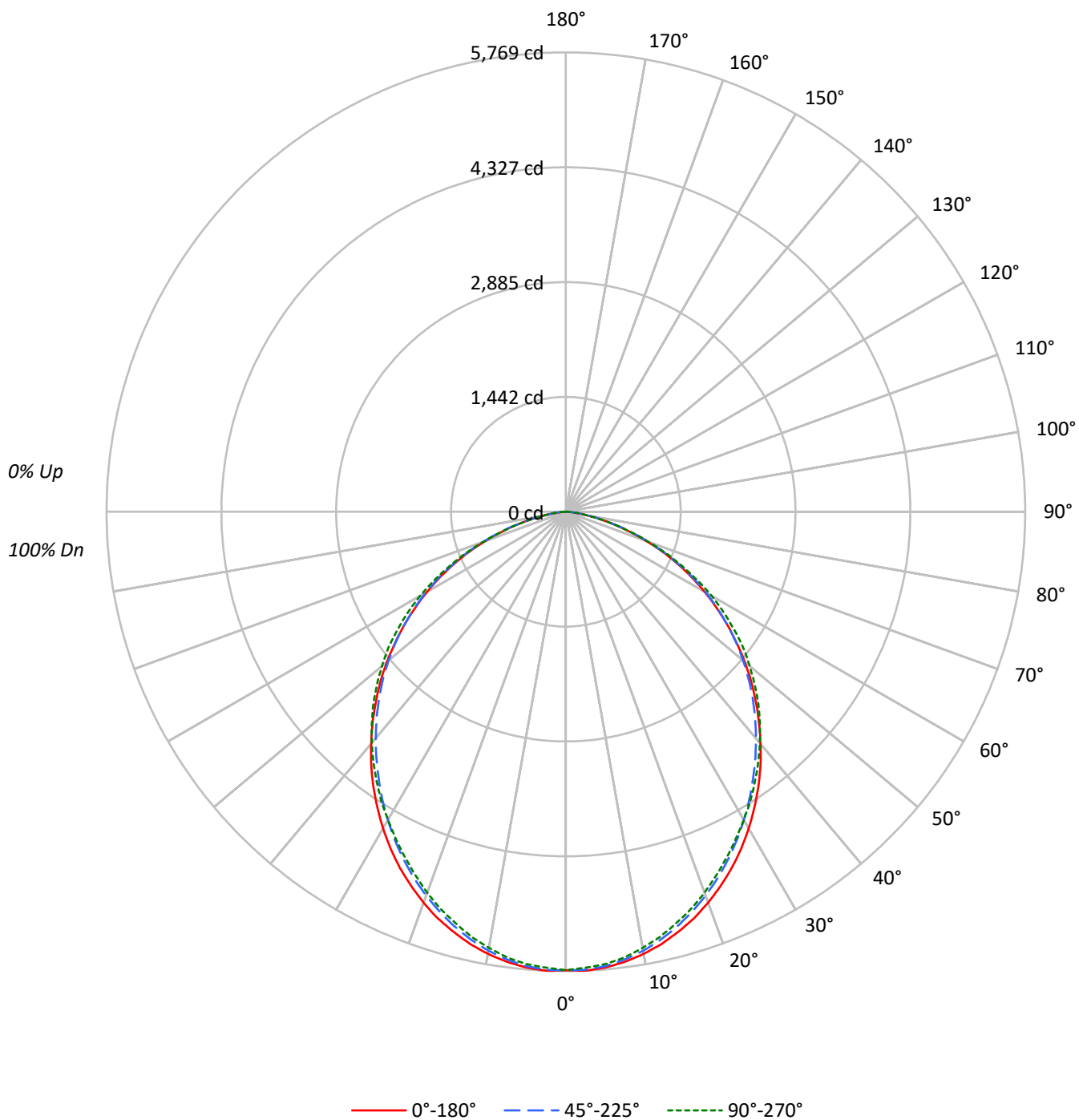
Lumens per Lamp: N/A
Luminaire Lumens: 14074.0 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 157.1
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	92	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	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°	7745	7745	7745
5°	7757	7733	7702
10°	7702	7647	7598
15°	7606	7512	7453
20°	7481	7344	7288
25°	7323	7154	7104
30°	7134	6947	6941
35°	6923	6729	6800
40°	6680	6524	6657
45°	6420	6314	6505
50°	6137	6084	6308
55°	5811	5808	6050
60°	5419	5463	5692
65°	4922	4994	5121
70°	4245	4334	4353
75°	3377	3466	3355
80°	2276	2338	2265
85°	1158	1505	1886

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6505 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.6	3.8
10°-20°	1519.2	10.8
20°-30°	2225.7	15.8
30°-40°	2586.2	18.4
40°-50°	2586.5	18.4
50°-60°	2230.9	15.9
60°-70°	1552.2	11.0
70°-80°	705.0	5.0
80°-90°	126.5	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°	4286.5	30.5
0°-40°	6872.8	48.8
0°-60°	11690.2	83.1
0°-90°	14074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14074.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5757	5757	5757	5757	5757	
5°	5743	5721	5726	5696	5703	545
15°	5461	5425	5393	5346	5351	1539
25°	4932	4883	4819	4775	4785	2270
35°	4215	4153	4097	4108	4140	2634
45°	3374	3323	3318	3378	3419	2603
55°	2477	2440	2476	2549	2579	2212
65°	1546	1534	1568	1593	1609	1530
75°	650	648	667	651	645	699
85°	75	82	98	115	122	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5756.6	5756.6	5756.6	5756.6	5756.6
2.5°	5768.8	5747.9	5756.6	5734.0	5730.7
5°	5743.4	5721.0	5725.8	5695.8	5702.6
7.5°	5699.1	5674.2	5671.6	5638.4	5645.2
10°	5637.5	5607.7	5597.2	5557.0	5560.9
12.5°	5558.7	5525.9	5505.6	5459.9	5466.9
15°	5460.6	5424.6	5392.7	5346.1	5350.7
17.5°	5352.8	5314.8	5267.8	5218.9	5229.9
20°	5224.8	5184.2	5128.9	5077.9	5090.3
22.5°	5083.4	5037.9	4981.1	4931.2	4939.6
25°	4932.5	4883.1	4818.9	4775.2	4785.2
27.5°	4768.4	4713.4	4649.5	4611.9	4627.0
30°	4592.1	4535.1	4471.3	4447.0	4467.3
32.5°	4406.4	4348.9	4288.0	4282.0	4311.0
35°	4214.6	4153.4	4096.7	4108.2	4140.2
37.5°	4015.2	3955.3	3907.3	3935.6	3969.1
40°	3803.4	3748.7	3714.5	3754.2	3790.0
42.5°	3591.0	3539.1	3518.7	3570.3	3608.9
45°	3374.1	3323.0	3318.2	3377.5	3418.6
47.5°	3159.3	3107.1	3115.8	3182.1	3218.9
50°	2931.8	2887.1	2906.4	2976.6	3013.4
52.5°	2703.7	2662.5	2693.2	2767.5	2810.7
55°	2477.1	2440.1	2476.0	2548.7	2579.2
57.5°	2244.8	2217.6	2257.1	2320.6	2349.9
60°	2013.6	1989.2	2030.0	2088.0	2115.3
62.5°	1779.9	1759.9	1801.5	1847.1	1862.7
65°	1546.1	1533.8	1568.5	1593.0	1608.6
67.5°	1316.8	1304.4	1337.3	1357.8	1361.7
70°	1079.1	1074.6	1101.7	1110.0	1106.6
72.5°	861.1	854.8	876.2	873.2	865.4
75°	649.6	647.6	666.8	651.4	645.4
77.5°	457.3	464.0	468.5	455.0	450.2
80°	293.8	304.7	301.7	296.9	292.3
82.5°	164.3	172.4	174.4	191.9	198.9
85°	75.0	82.5	97.5	115.1	122.2
87.5°	25.3	31.6	40.7	43.5	41.0
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	18.04	19.62	18.40	19.93	20.25	18.36	19.94	18.72	20.25	20.57
	3H	19.50	20.92	19.87	21.25	21.61	19.78	21.21	20.16	21.54	21.90
	4H	19.92	21.26	20.32	21.60	21.98	20.17	21.51	20.57	21.86	22.23
	6H	20.12	21.36	20.53	21.72	22.11	20.35	21.59	20.76	21.95	22.34
	8H	20.15	21.32	20.57	21.71	22.11	20.38	21.56	20.81	21.95	22.35
	12H	20.14	21.27	20.57	21.65	22.08	20.40	21.53	20.83	21.91	22.34
4H	2H	18.61	19.95	19.01	20.29	20.67	18.87	20.20	19.26	20.55	20.93
	3H	20.24	21.35	20.65	21.75	22.15	20.48	21.59	20.89	21.99	22.39
	4H	20.75	21.75	21.18	22.16	22.60	20.95	21.95	21.38	22.37	22.80
	6H	21.03	21.90	21.48	22.34	22.80	21.20	22.07	21.66	22.52	22.97
	8H	21.07	21.88	21.53	22.32	22.79	21.26	22.07	21.72	22.51	22.98
	12H	21.08	21.81	21.56	22.28	22.75	21.30	22.02	21.78	22.50	22.97
8H	4H	20.93	21.74	21.39	22.19	22.65	21.12	21.93	21.58	22.37	22.84
	6H	21.26	21.93	21.76	22.42	22.90	21.42	22.09	21.91	22.58	23.06
	8H	21.33	21.93	21.84	22.44	22.93	21.50	22.10	22.01	22.61	23.10
	12H	21.36	21.89	21.87	22.38	22.95	21.58	22.11	22.08	22.60	23.16
12H	4H	20.93	21.65	21.41	22.13	22.60	21.11	21.84	21.59	22.32	22.79
	6H	21.26	21.86	21.77	22.37	22.86	21.41	22.01	21.93	22.52	23.01
	8H	21.36	21.89	21.87	22.38	22.94	21.53	22.06	22.04	22.55	23.11