

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: P1499229

Luminaire Tested: MAE-G-4-120-2HI-LO-30

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499229
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-LO-30
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

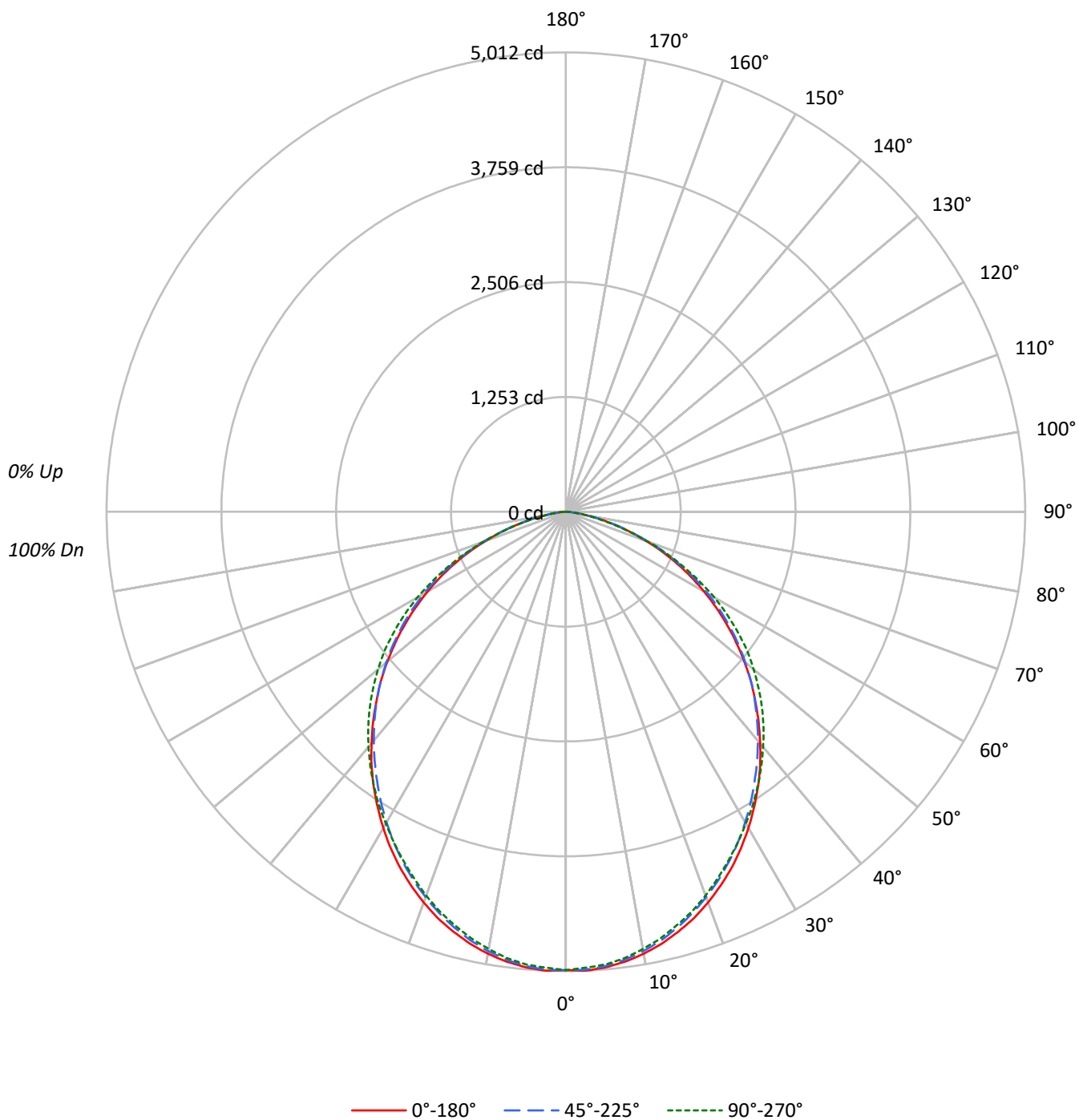
Lumens per Lamp: N/A
Luminaire Lumens: 12297.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.8
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	93	90		91
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64
5	78	65	56	50	76	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6728	6728	6728
5°	6739	6720	6696
10°	6690	6651	6617
15°	6606	6543	6508
20°	6496	6407	6380
25°	6357	6252	6233
30°	6191	6080	6104
35°	6005	5897	5995
40°	5793	5727	5882
45°	5566	5550	5761
50°	5318	5354	5598
55°	5033	5117	5373
60°	4691	4816	5042
65°	4256	4398	4493
70°	3664	3787	3755
75°	2908	2976	2799
80°	1948	1926	1771
85°	976	1172	1425

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5761 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.8	3.8
10°-20°	1323.3	10.8
20°-30°	1943.5	15.8
30°-40°	2264.1	18.4
40°-50°	2269.8	18.5
50°-60°	1961.1	15.9
60°-70°	1359.1	11.1
70°-80°	603.6	4.9
80°-90°	101.8	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°	3737.6	30.4
0°-40°	6001.7	48.8
0°-60°	10232.6	83.2
0°-90°	12297.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12297.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5001	5001	5001	5001	5001	
5°	4989	4968	4975	4953	4958	473
15°	4742	4713	4697	4667	4672	1337
25°	4282	4247	4211	4186	4198	1971
35°	3656	3616	3590	3616	3650	2285
45°	2925	2895	2917	2985	3028	2257
55°	2146	2128	2181	2260	2291	1916
65°	1337	1339	1381	1399	1411	1323
75°	559	564	572	548	538	602
85°	63	68	76	88	92	95
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5000.6	5000.6	5000.6	5000.6	5000.6
2.5°	5011.8	4991.0	5000.6	4983.9	4979.1
5°	4989.4	4968.3	4975.3	4952.7	4957.9
7.5°	4950.8	4928.2	4930.3	4906.3	4912.2
10°	4896.8	4870.8	4868.1	4839.8	4843.5
12.5°	4828.1	4800.6	4791.9	4760.5	4767.7
15°	4742.4	4713.1	4697.0	4666.9	4672.3
17.5°	4648.6	4619.0	4592.2	4561.3	4572.5
20°	4536.6	4506.4	4475.0	4442.5	4455.9
22.5°	4413.2	4380.1	4349.2	4318.4	4329.0
25°	4281.8	4246.9	4211.0	4186.3	4198.5
27.5°	4138.7	4100.2	4066.5	4047.3	4064.4
30°	3985.0	3946.0	3913.5	3906.6	3929.1
32.5°	3823.1	3784.9	3755.4	3765.6	3796.3
35°	3656.2	3615.7	3590.4	3616.3	3650.1
37.5°	3483.0	3443.7	3427.1	3468.0	3503.5
40°	3298.3	3264.4	3260.4	3311.7	3348.9
42.5°	3113.6	3082.4	3090.7	3152.6	3192.8
45°	2925.0	2894.9	2916.6	2984.9	3027.8
47.5°	2738.8	2707.1	2740.4	2814.9	2853.3
50°	2540.5	2515.9	2558.0	2635.1	2674.5
52.5°	2343.1	2320.8	2371.6	2452.2	2496.5
55°	2145.6	2127.5	2181.4	2259.5	2290.7
57.5°	1943.8	1933.9	1989.4	2056.3	2085.4
60°	1743.1	1735.1	1789.7	1848.1	1873.7
62.5°	1540.1	1535.7	1587.9	1630.8	1643.1
65°	1336.7	1338.9	1381.3	1399.0	1411.4
67.5°	1138.3	1138.5	1174.7	1185.8	1186.7
70°	931.3	938.1	962.6	961.3	954.5
72.5°	742.7	745.5	759.8	747.0	736.3
75°	559.3	563.7	572.4	547.7	538.4
77.5°	392.7	402.4	395.8	373.4	364.8
80°	251.4	261.3	248.6	235.5	228.5
82.5°	139.7	145.2	138.6	148.6	152.7
85°	63.2	67.6	75.9	87.9	92.3
87.5°	21.5	25.6	31.5	33.1	31.1
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	17.55	19.13	17.91	19.44	19.76	17.99	19.57	18.35	19.88	20.20
	3H	19.00	20.42	19.38	20.75	21.11	19.37	20.79	19.74	21.12	21.48
	4H	19.42	20.75	19.81	21.10	21.48	19.72	21.06	20.12	21.40	21.78
	6H	19.61	20.85	20.02	21.21	21.60	19.86	21.10	20.27	21.46	21.85
	8H	19.64	20.81	20.06	21.20	21.60	19.88	21.06	20.31	21.45	21.85
	12H	19.63	20.76	20.06	21.14	21.57	19.89	21.02	20.32	21.40	21.83
4H	2H	18.13	19.47	18.53	19.82	20.20	18.49	19.83	18.89	20.17	20.55
	3H	19.76	20.87	20.17	21.27	21.67	20.05	21.16	20.46	21.56	21.96
	4H	20.26	21.26	20.69	21.67	22.11	20.48	21.48	20.91	21.89	22.33
	6H	20.53	21.40	20.99	21.84	22.30	20.69	21.56	21.15	22.00	22.46
	8H	20.57	21.38	21.03	21.82	22.29	20.72	21.53	21.19	21.98	22.44
	12H	20.58	21.30	21.06	21.78	22.25	20.75	21.47	21.23	21.95	22.42
8H	4H	20.43	21.24	20.89	21.68	22.15	20.64	21.45	21.10	21.89	22.36
	6H	20.75	21.42	21.25	21.91	22.39	20.89	21.56	21.38	22.05	22.52
	8H	20.81	21.41	21.33	21.92	22.41	20.94	21.54	21.46	22.05	22.54
	12H	20.84	21.37	21.35	21.86	22.43	21.00	21.52	21.51	22.02	22.58
12H	4H	20.42	21.15	20.91	21.63	22.10	20.63	21.36	21.11	21.83	22.30
	6H	20.74	21.34	21.26	21.85	22.34	20.88	21.48	21.39	21.99	22.47
	8H	20.84	21.36	21.34	21.86	22.42	20.97	21.50	21.48	21.99	22.55