

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: P1499217

Luminaire Tested: MAE-G-4-120-2HI-HI-40

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499217
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-40
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

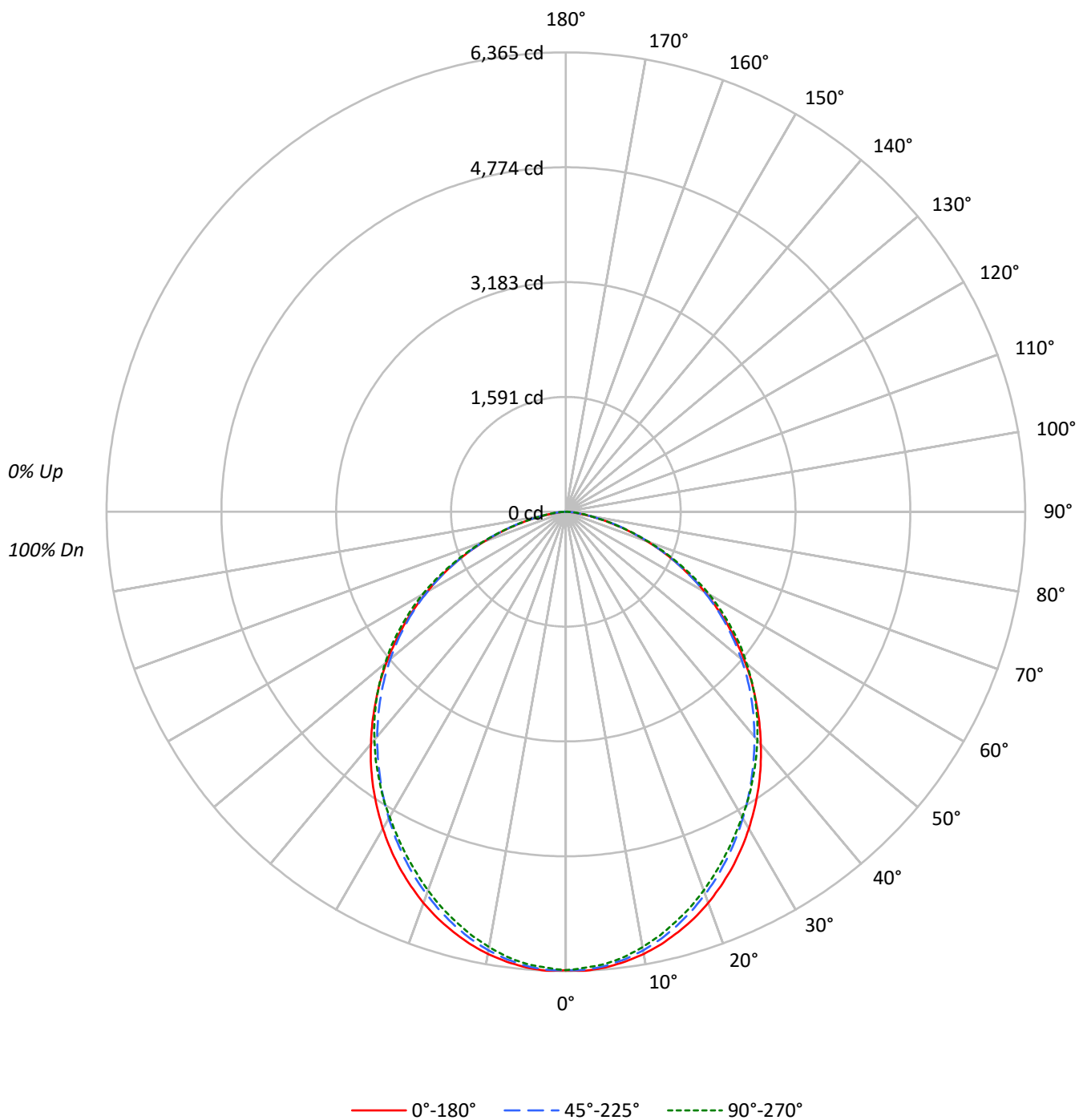
Lumens per Lamp: N/A
Luminaire Lumens: 15462.0 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10		0
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	92	90		91	89	88		85
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		61
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		41
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48	42	38		36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44	39	34		32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31		29
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38	32	28		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8547	8547	8547
5°	8559	8532	8494
10°	8500	8431	8367
15°	8395	8272	8192
20°	8258	8077	7996
25°	8085	7859	7780
30°	7878	7622	7587
35°	7647	7375	7420
40°	7381	7142	7250
45°	7096	6905	7072
50°	6785	6647	6846
55°	6426	6340	6564
60°	5995	5960	6188
65°	5451	5453	5608
70°	4707	4762	4829
75°	3751	3858	3813
80°	2540	2680	2688
85°	1306	1791	2285

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7096 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.4	3.9
10°-20°	1673.0	10.8
20°-30°	2446.2	15.8
30°-40°	2837.1	18.3
40°-50°	2832.2	18.3
50°-60°	2439.6	15.8
60°-70°	1702.5	11.0
70°-80°	786.4	5.1
80°-90°	147.4	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°	4716.6	30.5
0°-40°	7553.8	48.9
0°-60°	12825.6	82.9
0°-90°	15462.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15462.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6352	6352	6352	6352	6352	
5°	6337	6314	6317	6280	6289	601
15°	6027	5985	5939	5877	5881	1699
25°	5446	5383	5294	5233	5240	2506
35°	4655	4576	4490	4488	4517	2910
45°	3729	3659	3629	3678	3716	2877
55°	2739	2685	2703	2769	2798	2446
65°	1712	1686	1713	1743	1762	1694
75°	722	714	742	736	734	776
85°	85	95	116	139	148	125
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6352.3	6352.3	6352.3	6352.3	6352.3
2.5°	6365.2	6344.4	6352.3	6324.5	6322.7
5°	6337.4	6314.5	6316.8	6280.4	6288.6
7.5°	6288.7	6262.1	6255.0	6213.8	6221.4
10°	6221.1	6188.4	6170.6	6120.0	6124.0
12.5°	6134.5	6097.3	6066.3	6008.0	6014.7
15°	6026.7	5985.1	5938.6	5877.3	5881.1
17.5°	5907.9	5862.7	5797.4	5732.3	5742.9
20°	5767.5	5717.8	5640.9	5573.2	5584.3
22.5°	5611.9	5555.4	5475.3	5408.1	5414.2
25°	5445.7	5383.3	5293.6	5232.8	5240.4
27.5°	5265.1	5195.8	5104.2	5049.9	5062.5
30°	5071.0	4998.2	4905.8	4865.4	4883.3
32.5°	4866.7	4792.1	4702.4	4681.2	4707.9
35°	4655.4	4575.8	4490.1	4487.6	4517.3
37.5°	4435.3	4357.1	4280.0	4295.7	4326.6
40°	4202.4	4129.0	4066.5	4094.5	4127.8
42.5°	3968.2	3897.5	3850.1	3890.8	3926.9
45°	3729.1	3658.9	3628.6	3678.2	3716.5
47.5°	3491.5	3420.8	3405.9	3462.9	3497.4
50°	3241.2	3178.2	3175.3	3237.1	3270.8
52.5°	2988.7	2930.4	2941.2	3007.7	3049.0
55°	2739.4	2685.1	2702.9	2768.9	2798.2
57.5°	2483.0	2439.9	2463.0	2522.0	2550.9
60°	2227.8	2188.2	2214.7	2271.1	2299.4
62.5°	1969.7	1935.4	1965.9	2013.1	2031.5
65°	1712.2	1686.3	1712.8	1743.2	1761.6
67.5°	1458.6	1434.3	1463.1	1492.4	1499.0
70°	1196.5	1181.3	1210.4	1227.7	1227.6
72.5°	955.3	940.4	968.1	974.6	969.7
75°	721.5	713.6	742.2	736.0	733.5
77.5°	508.9	512.7	527.8	523.1	522.0
80°	327.8	339.3	345.9	349.2	346.9
82.5°	184.3	194.8	204.8	229.1	238.7
85°	84.6	94.9	116.0	138.7	148.0
87.5°	28.5	36.7	48.7	52.4	49.7
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	18.38	19.96	18.75	20.28	20.59	18.61	20.19	18.97	20.50	20.82
	3H	19.85	21.27	20.22	21.60	21.96	20.07	21.50	20.45	21.82	22.18
	4H	20.27	21.61	20.67	21.96	22.33	20.49	21.82	20.89	22.17	22.55
	6H	20.48	21.71	20.89	22.08	22.47	20.69	21.93	21.11	22.30	22.69
	8H	20.51	21.68	20.93	22.07	22.47	20.74	21.92	21.17	22.31	22.71
	12H	20.50	21.63	20.93	22.01	22.44	20.77	21.90	21.20	22.28	22.71
4H	2H	18.94	20.28	19.34	20.63	21.00	19.12	20.46	19.52	20.81	21.18
	3H	20.58	21.69	20.99	22.09	22.49	20.77	21.89	21.18	22.29	22.69
	4H	21.09	22.09	21.52	22.51	22.94	21.28	22.28	21.71	22.70	23.13
	6H	21.38	22.25	21.83	22.69	23.15	21.57	22.44	22.02	22.88	23.34
	8H	21.42	22.23	21.88	22.68	23.14	21.64	22.45	22.10	22.89	23.36
	12H	21.43	22.16	21.91	22.64	23.11	21.69	22.42	22.17	22.89	23.36
8H	4H	21.28	22.09	21.74	22.54	23.00	21.45	22.27	21.91	22.71	23.18
	6H	21.62	22.29	22.12	22.78	23.26	21.80	22.47	22.29	22.96	23.44
	8H	21.69	22.29	22.20	22.80	23.29	21.90	22.50	22.41	23.01	23.50
	12H	21.73	22.26	22.24	22.75	23.31	21.99	22.52	22.50	23.01	23.58
12H	4H	21.28	22.01	21.76	22.48	22.95	21.45	22.18	21.93	22.65	23.12
	6H	21.62	22.22	22.13	22.73	23.22	21.79	22.40	22.31	22.91	23.39
	8H	21.73	22.26	22.23	22.75	23.31	21.93	22.46	22.44	22.96	23.52