

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: P1499460

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499460
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-4-120-2STD-STD-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

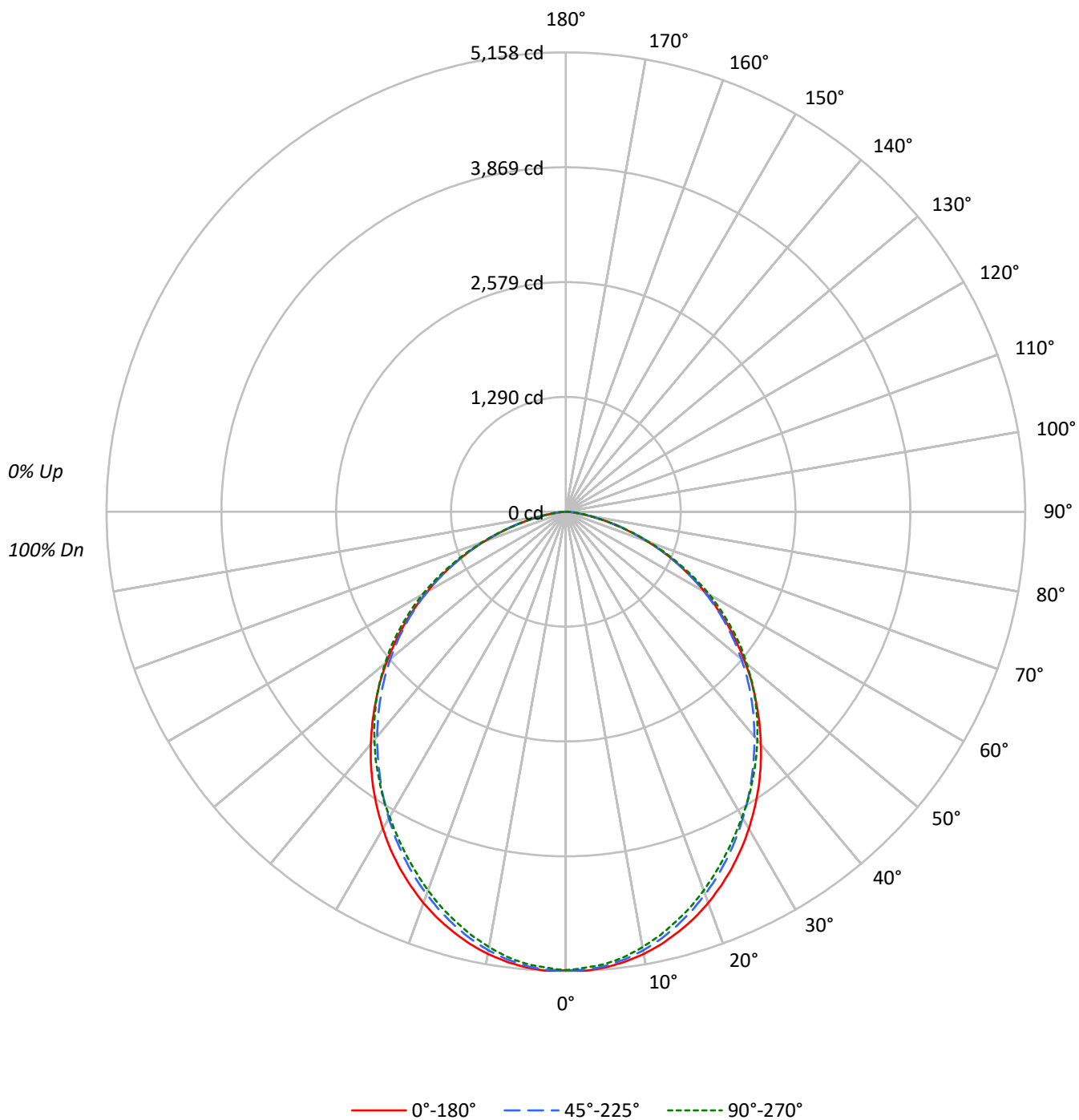
Lumens per Lamp: N/A
Luminaire Lumens: 12530.0 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	92	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	75	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	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6926	6926	6926
5°	6936	6914	6883
10°	6888	6832	6780
15°	6803	6704	6639
20°	6692	6545	6480
25°	6551	6369	6305
30°	6385	6176	6148
35°	6197	5977	6013
40°	5982	5788	5875
45°	5750	5595	5731
50°	5498	5386	5548
55°	5207	5138	5319
60°	4858	4830	5014
65°	4417	4419	4545
70°	3814	3859	3913
75°	3040	3126	3090
80°	2059	2172	2178
85°	1057	1451	1853

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5750 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.1	3.9
10°-20°	1355.8	10.8
20°-30°	1982.4	15.8
30°-40°	2299.1	18.3
40°-50°	2295.1	18.3
50°-60°	1977.0	15.8
60°-70°	1379.7	11.0
70°-80°	637.3	5.1
80°-90°	119.5	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°	3822.2	30.5
0°-40°	6121.4	48.9
0°-60°	10393.5	82.9
0°-90°	12530.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12530.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5148	5148	5148	5148	5148	
5°	5136	5117	5119	5089	5096	487
15°	4884	4850	4812	4763	4766	1377
25°	4413	4362	4290	4240	4247	2031
35°	3773	3708	3639	3637	3661	2358
45°	3022	2965	2941	2981	3012	2331
55°	2220	2176	2190	2244	2268	1982
65°	1388	1367	1388	1413	1428	1373
75°	585	578	601	596	594	629
85°	68	77	94	112	120	102
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5147.6	5147.6	5147.6	5147.6	5147.6
2.5°	5158.2	5141.3	5147.6	5125.2	5123.8
5°	5135.6	5117.1	5118.9	5089.4	5096.1
7.5°	5096.1	5074.6	5068.8	5035.5	5041.7
10°	5041.4	5014.9	5000.5	4959.5	4962.7
12.5°	4971.2	4941.2	4916.0	4868.7	4874.2
15°	4883.8	4850.1	4812.5	4762.8	4765.8
17.5°	4787.7	4751.0	4698.0	4645.4	4653.8
20°	4673.9	4633.5	4571.2	4516.4	4525.4
22.5°	4547.7	4501.9	4437.0	4382.6	4387.5
25°	4412.9	4362.5	4289.8	4240.5	4246.7
27.5°	4266.7	4210.4	4136.3	4092.3	4102.6
30°	4109.4	4050.4	3975.5	3942.9	3957.4
32.5°	3943.9	3883.4	3810.7	3793.5	3815.2
35°	3772.6	3708.1	3638.6	3636.6	3660.7
37.5°	3594.2	3530.8	3468.4	3481.2	3506.1
40°	3405.6	3346.0	3295.4	3318.0	3345.1
42.5°	3215.7	3158.5	3120.1	3153.0	3182.2
45°	3022.0	2965.1	2940.6	2980.7	3011.8
47.5°	2829.4	2772.1	2760.0	2806.3	2834.2
50°	2626.6	2575.6	2573.2	2623.3	2650.6
52.5°	2422.0	2374.7	2383.5	2437.4	2470.8
55°	2219.9	2175.9	2190.4	2243.9	2267.6
57.5°	2012.1	1977.3	1996.1	2043.8	2067.2
60°	1805.3	1773.3	1794.8	1840.4	1863.3
62.5°	1596.2	1568.4	1593.1	1631.4	1646.3
65°	1387.5	1366.6	1388.0	1412.7	1427.5
67.5°	1182.0	1162.3	1185.7	1209.4	1214.8
70°	969.6	957.2	980.9	994.9	994.7
72.5°	774.2	762.1	784.5	789.8	785.8
75°	584.7	578.2	601.4	596.4	594.4
77.5°	412.5	415.5	427.7	424.0	422.9
80°	265.7	275.0	280.3	283.0	281.1
82.5°	149.3	157.9	165.9	185.6	193.4
85°	68.5	76.9	94.0	112.3	120.0
87.5°	23.1	29.8	39.5	42.5	40.2
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	17.65	19.23	18.02	19.55	19.86	17.87	19.46	18.24	19.77	20.09
	3H	19.12	20.54	19.49	20.87	21.23	19.34	20.77	19.72	21.09	21.45
	4H	19.54	20.88	19.94	21.23	21.60	19.76	21.09	20.16	21.44	21.82
	6H	19.75	20.98	20.16	21.35	21.74	19.96	21.20	20.38	21.57	21.96
	8H	19.78	20.95	20.20	21.34	21.74	20.01	21.19	20.44	21.58	21.98
	12H	19.77	20.90	20.20	21.28	21.71	20.04	21.17	20.47	21.55	21.98
4H	2H	18.21	19.55	18.61	19.90	20.27	18.39	19.73	18.79	20.08	20.45
	3H	19.85	20.96	20.26	21.36	21.76	20.04	21.16	20.45	21.55	21.96
	4H	20.36	21.36	20.79	21.78	22.21	20.55	21.55	20.98	21.97	22.40
	6H	20.65	21.52	21.10	21.96	22.42	20.84	21.71	21.29	22.15	22.61
	8H	20.69	21.50	21.15	21.95	22.41	20.91	21.72	21.37	22.16	22.63
	12H	20.70	21.43	21.18	21.91	22.38	20.96	21.69	21.44	22.16	22.63
8H	4H	20.55	21.36	21.01	21.81	22.27	20.72	21.54	21.18	21.98	22.44
	6H	20.89	21.56	21.39	22.05	22.53	21.07	21.74	21.56	22.23	22.71
	8H	20.96	21.56	21.47	22.07	22.56	21.17	21.77	21.68	22.28	22.77
	12H	21.00	21.53	21.51	22.02	22.58	21.26	21.79	21.77	22.28	22.85
12H	4H	20.55	21.28	21.03	21.75	22.22	20.72	21.45	21.20	21.92	22.39
	6H	20.89	21.49	21.40	22.00	22.49	21.06	21.67	21.58	22.18	22.66
	8H	21.00	21.53	21.50	22.02	22.58	21.20	21.73	21.71	22.23	22.79