

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: P1499658

Luminaire Tested: MAE-G-4-120-3STD-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-3STD-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

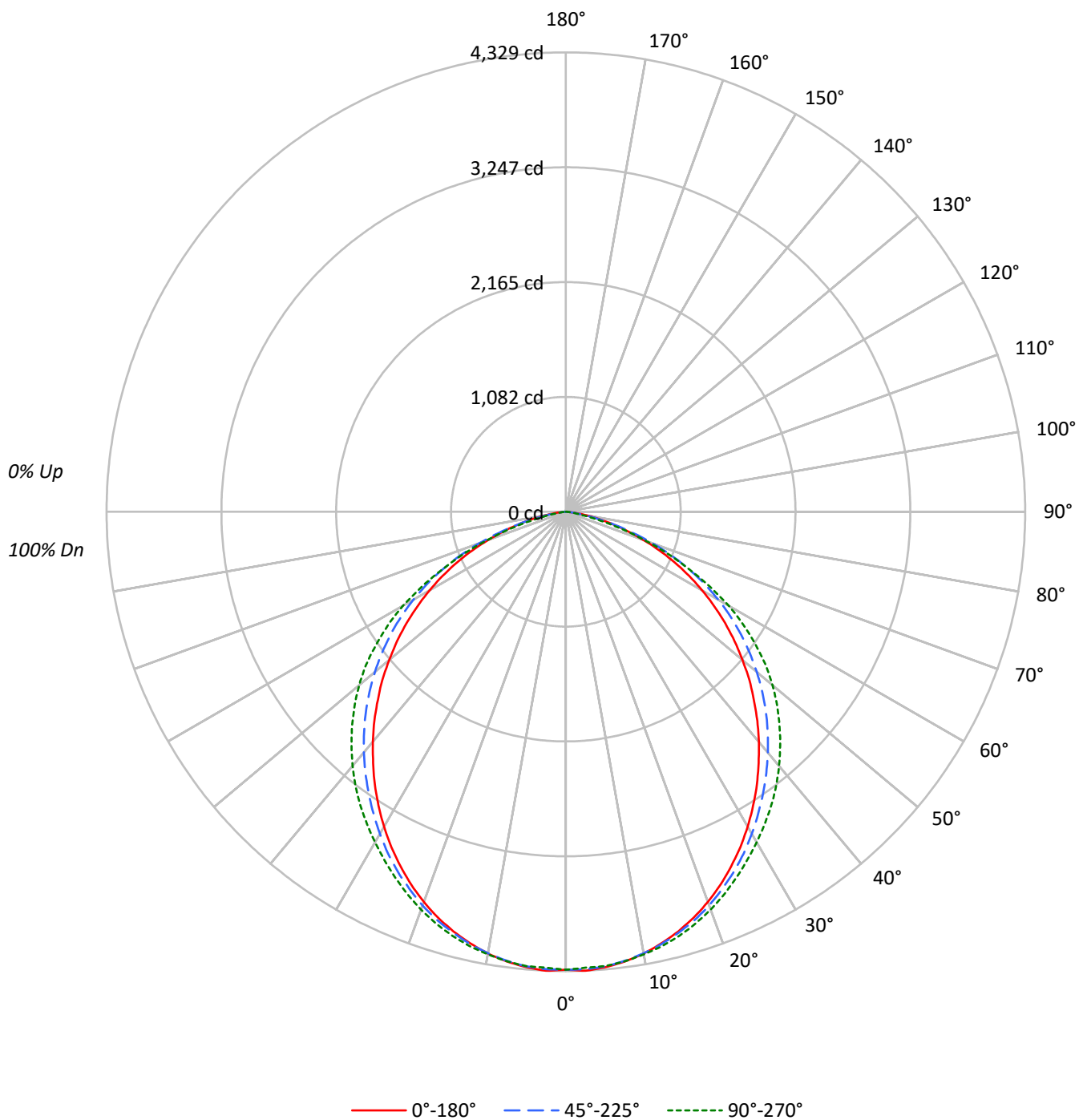
Lumens per Lamp: N/A
Luminaire Lumens: 10937.0 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 102.4
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	102	98	107	103	100	96	99	96	93		95	93	91		92
2	100	93	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		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	36	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5806	5806	5806
5°	5819	5806	5804
10°	5776	5773	5787
15°	5702	5720	5762
20°	5603	5654	5713
25°	5473	5560	5648
30°	5325	5445	5588
35°	5157	5321	5546
40°	4970	5201	5490
45°	4767	5073	5420
50°	4546	4916	5324
55°	4302	4726	5119
60°	3993	4465	4776
65°	3605	4072	4091
70°	3077	3419	3179
75°	2417	2495	1956
80°	1577	1283	757
85°	756	508	401

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5420 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.6	3.7
10°-20°	1157.2	10.6
20°-30°	1721.1	15.7
30°-40°	2028.1	18.5
40°-50°	2056.3	18.8
50°-60°	1791.8	16.4
60°-70°	1225.4	11.2
70°-80°	492.3	4.5
80°-90°	57.1	0.5
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°	3285.9	30.0
0°-40°	5314.1	48.6
0°-60°	9162.2	83.8
0°-90°	10937.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10937.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4315	4315	4315	4315	4315	
5°	4308	4282	4299	4294	4297	409
15°	4094	4076	4107	4124	4137	1153
25°	3686	3688	3745	3772	3804	1697
35°	3140	3154	3240	3319	3376	1961
45°	2505	2539	2666	2786	2848	1934
55°	1834	1873	2014	2141	2182	1637
65°	1132	1183	1279	1289	1285	1120
75°	465	496	480	412	376	499
85°	49	44	33	29	26	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4315.2	4315.2	4315.2	4315.2	4315.2
2.5°	4329.1	4300.2	4315.2	4312.1	4301.1
5°	4308.2	4282.1	4299.1	4294.3	4297.1
7.5°	4274.2	4250.4	4268.3	4267.4	4272.2
10°	4227.5	4203.4	4225.5	4229.4	4235.4
12.5°	4165.5	4145.6	4172.5	4180.5	4192.4
15°	4093.6	4075.7	4106.6	4123.6	4136.6
17.5°	4009.8	3994.8	4034.7	4050.8	4068.7
20°	3913.0	3902.2	3948.9	3963.9	3990.0
22.5°	3805.4	3799.4	3848.2	3871.1	3901.1
25°	3686.5	3687.6	3745.4	3772.5	3804.3
27.5°	3561.9	3563.9	3629.8	3667.5	3701.5
30°	3427.2	3433.1	3505.0	3552.0	3596.8
32.5°	3284.5	3296.4	3374.2	3438.2	3488.0
35°	3139.8	3153.7	3239.7	3319.3	3376.2
37.5°	2983.3	3006.2	3103.0	3197.8	3256.5
40°	2829.6	2852.5	2961.2	3066.0	3125.9
42.5°	2671.0	2699.9	2815.7	2932.3	2990.1
45°	2505.4	2539.1	2665.9	2785.7	2848.5
47.5°	2346.6	2376.6	2510.2	2635.1	2699.9
50°	2171.9	2209.9	2348.6	2479.4	2543.3
52.5°	2005.5	2040.3	2183.0	2316.8	2374.6
55°	1833.9	1872.7	2014.5	2141.1	2182.1
57.5°	1658.1	1705.1	1841.8	1947.7	1986.5
60°	1483.7	1530.4	1659.2	1746.1	1775.0
62.5°	1309.9	1360.0	1472.7	1530.4	1530.4
65°	1132.4	1183.3	1279.0	1289.0	1285.0
67.5°	954.9	1005.8	1078.6	1060.5	1048.6
70°	782.2	826.1	869.1	836.0	808.2
72.5°	614.6	656.5	663.6	615.7	580.6
75°	464.9	496.0	479.9	412.2	376.2
77.5°	324.2	342.3	308.3	239.5	210.6
80°	203.5	211.5	165.6	116.7	97.7
82.5°	109.8	110.7	71.9	58.9	54.9
85°	49.0	43.9	32.9	28.9	26.0
87.5°	17.0	15.0	11.9	11.0	9.0
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	17.04	18.62	17.40	18.93	19.25	18.02	19.60	18.39	19.92	20.23
	3H	18.45	19.87	18.82	20.20	20.56	19.22	20.65	19.60	20.97	21.33
	4H	18.84	20.17	19.24	20.52	20.90	19.44	20.78	19.84	21.12	21.50
	6H	19.02	20.25	19.43	20.61	21.00	19.46	20.69	19.87	21.06	21.45
	8H	19.03	20.20	19.46	20.59	20.99	19.44	20.61	19.86	21.00	21.40
	12H	19.02	20.14	19.45	20.53	20.96	19.41	20.53	19.84	20.92	21.35
4H	2H	17.71	19.04	18.11	19.39	19.77	18.50	19.83	18.90	20.18	20.56
	3H	19.28	20.38	19.69	20.78	21.18	19.87	20.97	20.28	21.37	21.77
	4H	19.75	20.75	20.19	21.16	21.60	20.14	21.13	20.57	21.55	21.99
	6H	19.99	20.85	20.45	21.30	21.75	20.19	21.05	20.65	21.50	21.95
	8H	20.02	20.82	20.48	21.26	21.73	20.17	20.97	20.63	21.42	21.88
	12H	20.02	20.74	20.50	21.21	21.68	20.15	20.87	20.63	21.34	21.81
8H	4H	19.90	20.70	20.36	21.15	21.61	20.26	21.06	20.72	21.51	21.97
	6H	20.17	20.84	20.67	21.33	21.80	20.32	20.98	20.81	21.47	21.95
	8H	20.21	20.81	20.73	21.31	21.80	20.30	20.89	20.81	21.40	21.88
	12H	20.23	20.75	20.74	21.24	21.81	20.28	20.80	20.79	21.30	21.86
12H	4H	19.88	20.60	20.36	21.08	21.55	20.25	20.97	20.73	21.44	21.91
	6H	20.14	20.74	20.66	21.25	21.73	20.30	20.89	20.81	21.40	21.89
	8H	20.21	20.73	20.72	21.22	21.79	20.30	20.82	20.81	21.31	21.87