

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: P1499670

Luminaire Tested: MAE-G-4-120-3STD-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499670
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-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

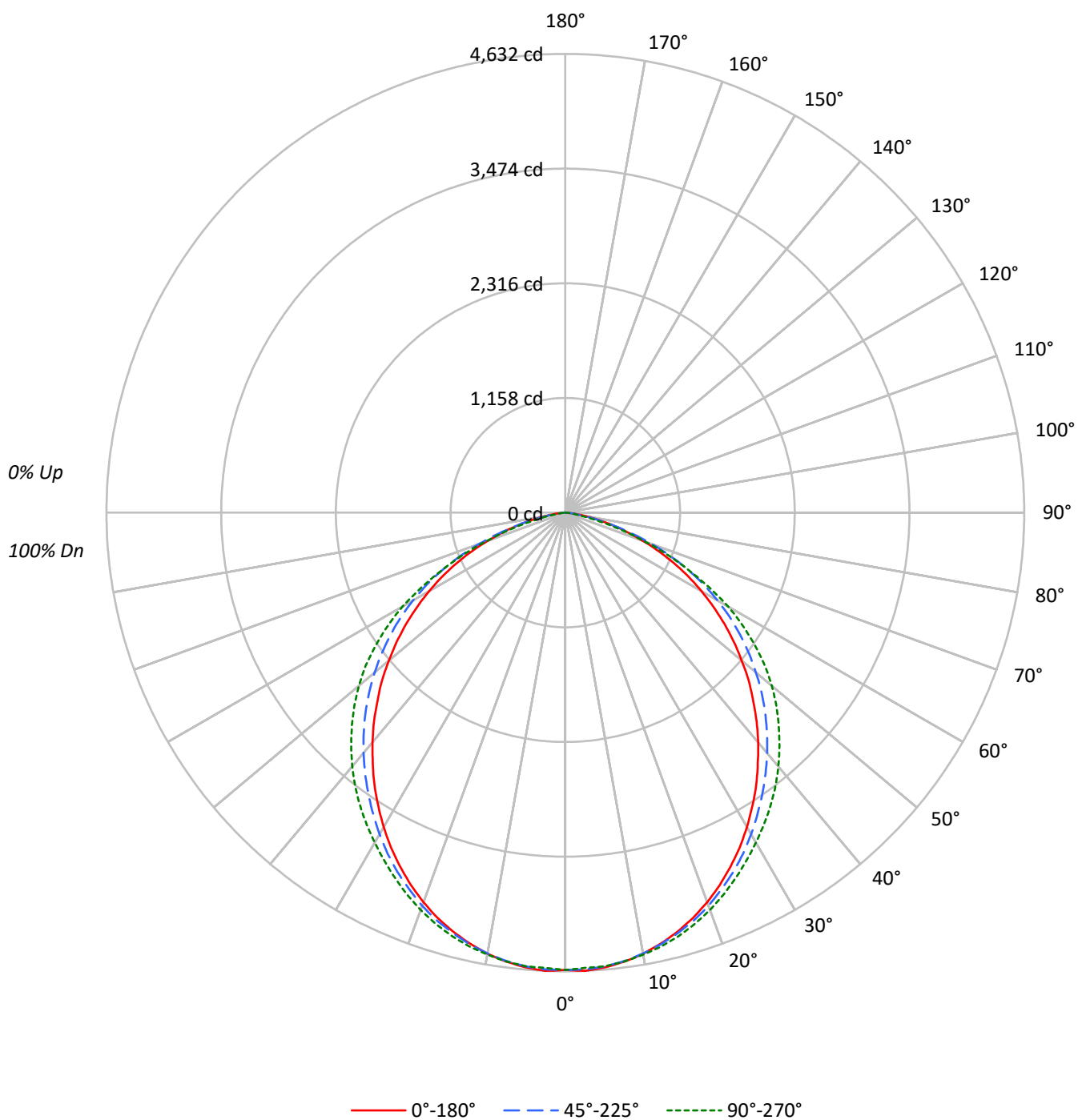
Lumens per Lamp: N/A
Luminaire Lumens: 11701.0 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	6212	6212	6212
5°	6225	6212	6209
10°	6179	6176	6191
15°	6101	6120	6165
20°	5994	6049	6112
25°	5855	5949	6042
30°	5697	5826	5978
35°	5518	5693	5933
40°	5317	5564	5874
45°	5100	5427	5799
50°	4864	5259	5696
55°	4602	5056	5476
60°	4271	4777	5110
65°	3857	4357	4377
70°	3292	3658	3402
75°	2585	2669	2092
80°	1688	1373	810
85°	809	543	429

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5799 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.1	3.7
10°-20°	1238.1	10.6
20°-30°	1841.3	15.7
30°-40°	2169.8	18.5
40°-50°	2200.0	18.8
50°-60°	1917.0	16.4
60°-70°	1311.1	11.2
70°-80°	526.6	4.5
80°-90°	61.1	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°	3515.5	30.0
0°-40°	5685.3	48.6
0°-60°	9802.3	83.8
0°-90°	11701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11701.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4617	4617	4617	4617	4617	
5°	4609	4581	4599	4594	4597	437
15°	4380	4360	4394	4412	4426	1234
25°	3944	3945	4007	4036	4070	1816
35°	3359	3374	3466	3551	3612	2098
45°	2680	2716	2852	2980	3048	2069
55°	1962	2004	2155	2291	2334	1751
65°	1212	1266	1368	1379	1375	1198
75°	497	531	513	441	402	534
85°	52	47	35	31	28	81
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4616.7	4616.7	4616.7	4616.7	4616.7
2.5°	4631.5	4600.6	4616.7	4613.4	4601.6
5°	4609.1	4581.3	4599.4	4594.3	4597.3
7.5°	4572.8	4547.3	4566.4	4565.5	4570.7
10°	4522.8	4497.1	4520.6	4524.9	4531.3
12.5°	4456.5	4435.2	4464.0	4472.5	4485.3
15°	4379.6	4360.4	4393.5	4411.6	4425.6
17.5°	4289.9	4273.9	4316.6	4333.8	4352.9
20°	4186.3	4174.8	4224.8	4240.8	4268.7
22.5°	4071.2	4064.8	4117.0	4141.5	4173.6
25°	3944.0	3945.2	4007.0	4036.0	4070.0
27.5°	3810.7	3812.9	3883.4	3923.7	3960.1
30°	3666.6	3672.9	3749.9	3800.1	3848.0
32.5°	3513.9	3526.7	3610.0	3678.4	3731.7
35°	3359.2	3374.0	3466.0	3551.2	3612.1
37.5°	3191.7	3216.2	3319.8	3421.2	3484.0
40°	3027.2	3051.7	3168.1	3280.1	3344.3
42.5°	2857.6	2888.5	3012.3	3137.2	3199.0
45°	2680.4	2716.5	2852.2	2980.3	3047.5
47.5°	2510.5	2542.6	2685.6	2819.1	2888.5
50°	2323.7	2364.2	2512.6	2652.6	2721.0
52.5°	2145.5	2182.8	2335.5	2478.7	2540.5
55°	1962.0	2003.5	2155.2	2290.6	2334.5
57.5°	1774.0	1824.2	1970.5	2083.7	2125.3
60°	1587.3	1637.4	1775.1	1868.1	1899.0
62.5°	1401.4	1455.0	1575.5	1637.4	1637.4
65°	1211.5	1266.0	1368.4	1379.0	1374.8
67.5°	1021.6	1076.1	1153.9	1134.6	1121.8
70°	836.8	883.8	929.8	894.4	864.7
72.5°	657.5	702.4	709.9	658.7	621.2
75°	497.3	530.6	513.4	441.0	402.5
77.5°	346.8	366.2	329.8	256.2	225.3
80°	217.8	226.3	177.2	124.8	104.5
82.5°	117.5	118.4	76.9	63.0	58.7
85°	52.4	46.9	35.2	30.9	27.8
87.5°	18.2	16.0	12.7	11.8	9.7
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	17.27	18.86	17.64	19.17	19.48	18.26	19.84	18.62	20.15	20.47
	3H	18.68	20.10	19.06	20.43	20.79	19.46	20.88	19.84	21.21	21.57
	4H	19.08	20.41	19.47	20.76	21.13	19.68	21.01	20.08	21.36	21.74
	6H	19.25	20.48	19.66	20.85	21.24	19.69	20.93	20.11	21.29	21.68
	8H	19.26	20.44	19.69	20.83	21.23	19.67	20.84	20.10	21.23	21.63
	12H	19.26	20.38	19.69	20.76	21.19	19.65	20.77	20.08	21.15	21.58
4H	2H	17.94	19.28	18.34	19.62	20.00	18.73	20.07	19.13	20.42	20.79
	3H	19.51	20.62	19.92	21.02	21.42	20.10	21.21	20.51	21.61	22.01
	4H	19.99	20.98	20.42	21.40	21.83	20.38	21.37	20.81	21.78	22.22
	6H	20.23	21.09	20.68	21.53	21.99	20.43	21.29	20.88	21.73	22.19
	8H	20.25	21.06	20.71	21.50	21.97	20.40	21.21	20.86	21.65	22.12
	12H	20.25	20.97	20.73	21.45	21.92	20.38	21.10	20.86	21.58	22.05
8H	4H	20.13	20.94	20.60	21.38	21.85	20.49	21.30	20.96	21.74	22.21
	6H	20.41	21.07	20.90	21.56	22.04	20.55	21.22	21.05	21.71	22.18
	8H	20.45	21.04	20.96	21.55	22.04	20.53	21.12	21.04	21.63	22.12
	12H	20.46	20.98	20.97	21.48	22.04	20.52	21.04	21.03	21.53	22.09
12H	4H	20.12	20.83	20.60	21.31	21.78	20.48	21.20	20.96	21.68	22.15
	6H	20.38	20.97	20.89	21.48	21.97	20.53	21.12	21.04	21.63	22.12
	8H	20.44	20.97	20.95	21.46	22.02	20.53	21.05	21.04	21.54	22.11