

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: P1499352

Luminaire Tested: MAE-G-4-120-2LO-STD-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499352
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-4-120-2LO-STD-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

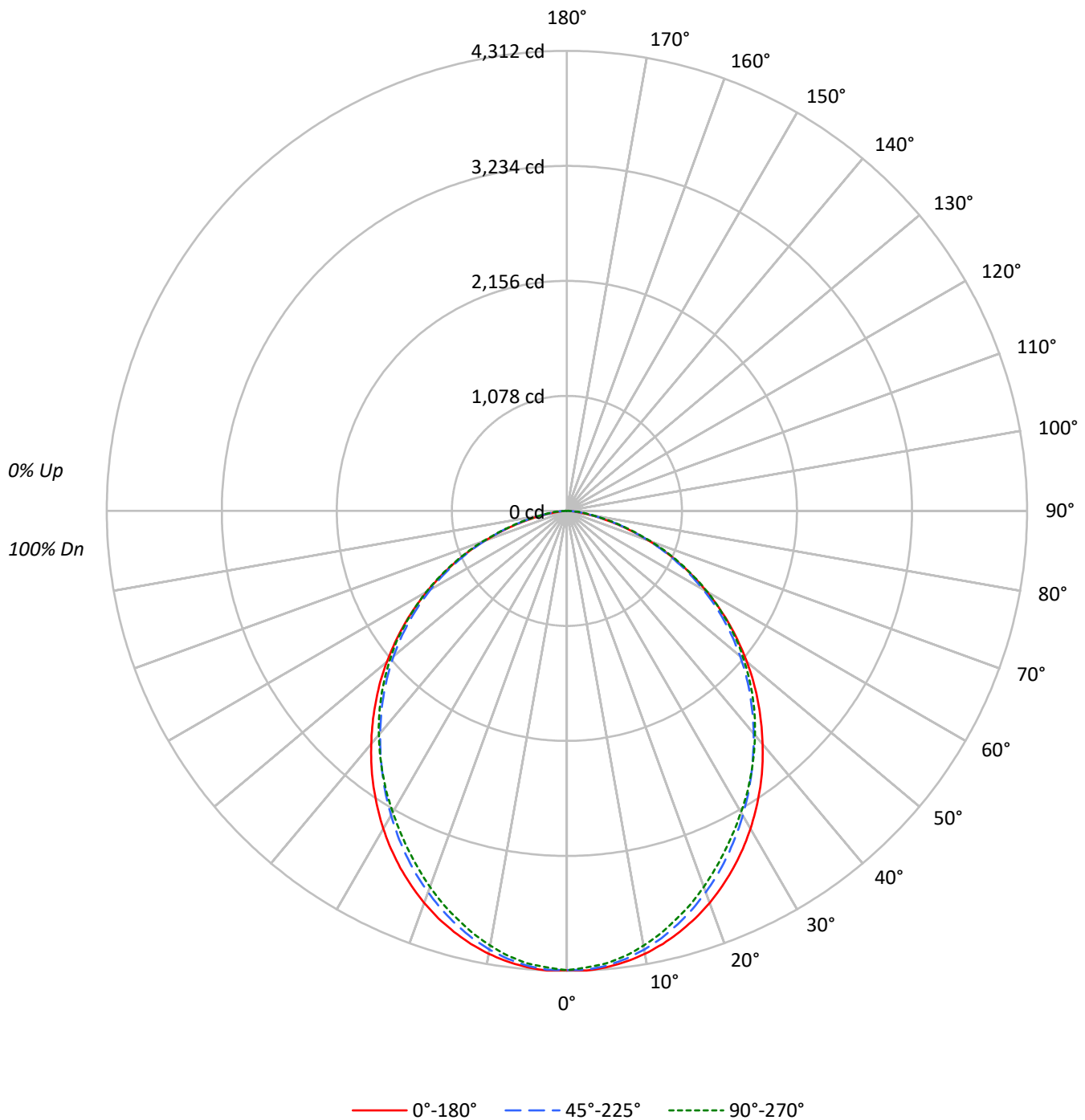
Lumens per Lamp: N/A
Luminaire Lumens: 10408.0 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 116.5
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
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	87	85		
2	100	92	86	80	98	90	85	79	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	56	66	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	55	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°	5791	5791	5791
5°	5800	5779	5750
10°	5760	5705	5652
15°	5690	5588	5518
20°	5599	5446	5371
25°	5482	5289	5211
30°	5345	5120	5068
35°	5189	4947	4942
40°	5011	4782	4816
45°	4819	4615	4685
50°	4610	4436	4524
55°	4368	4227	4334
60°	4078	3970	4098
65°	3713	3637	3757
70°	3213	3205	3298
75°	2567	2649	2696
80°	1750	1918	2012
85°	914	1345	1757

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4819 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.5	3.9
10°-20°	1130.2	10.9
20°-30°	1647.7	15.8
30°-40°	1905.5	18.3
40°-50°	1896.9	18.2
50°-60°	1630.7	15.7
60°-70°	1143.2	11.0
70°-80°	541.5	5.2
80°-90°	107.8	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°	3182.4	30.6
0°-40°	5087.9	48.9
0°-60°	8615.5	82.8
0°-90°	10408.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10408.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4304	4304	4304	4304	4304	
5°	4294	4280	4279	4251	4257	407
15°	4085	4055	4012	3960	3962	1151
25°	3693	3643	3563	3509	3510	1700
35°	3159	3093	3012	2995	3009	1975
45°	2533	2471	2426	2443	2462	1954
55°	1862	1812	1802	1832	1847	1663
65°	1166	1136	1142	1166	1180	1154
75°	494	482	510	516	519	531
85°	59	68	87	106	114	87
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4304.3	4304.3	4304.3	4304.3	4304.3
2.5°	4312.5	4300.9	4304.3	4282.7	4283.3
5°	4294.1	4280.1	4278.8	4250.8	4257.2
7.5°	4261.1	4244.0	4235.0	4202.4	4207.6
10°	4215.7	4193.7	4175.4	4134.8	4137.2
12.5°	4157.2	4131.3	4101.6	4054.0	4057.5
15°	4084.8	4054.6	4011.9	3960.3	3961.5
17.5°	4004.5	3970.4	3912.6	3857.3	3862.8
20°	3910.1	3871.5	3803.3	3745.9	3750.9
22.5°	3805.2	3760.7	3688.5	3630.8	3631.7
25°	3692.7	3642.8	3562.8	3508.8	3510.3
27.5°	3571.1	3515.1	3431.9	3382.0	3386.7
30°	3440.1	3380.6	3295.6	3254.5	3262.0
32.5°	3302.3	3240.3	3156.7	3127.5	3140.3
35°	3159.3	3093.1	3011.7	2994.6	3008.9
37.5°	3010.1	2944.8	2868.2	2862.9	2877.7
40°	2853.1	2790.1	2722.7	2725.5	2742.1
42.5°	2694.5	2633.2	2575.7	2587.0	2604.8
45°	2532.8	2471.3	2425.6	2443.0	2461.9
47.5°	2371.2	2310.2	2275.0	2297.4	2314.5
50°	2202.4	2145.9	2119.3	2145.6	2161.3
52.5°	2030.5	1978.0	1961.9	1991.4	2012.8
55°	1862.1	1811.8	1801.8	1832.2	1847.4
57.5°	1688.5	1646.0	1641.2	1669.7	1685.7
60°	1515.4	1475.8	1475.2	1505.6	1523.0
62.5°	1340.5	1304.7	1309.8	1338.6	1352.3
65°	1166.4	1136.3	1142.4	1166.4	1180.0
67.5°	993.8	966.7	978.8	1005.2	1012.0
70°	816.7	796.0	814.7	834.8	838.4
72.5°	652.5	634.4	657.2	671.5	672.1
75°	493.7	482.4	509.5	516.2	518.6
77.5°	349.3	348.2	368.5	375.7	379.2
80°	225.8	233.2	247.5	258.5	259.7
82.5°	127.8	136.5	151.2	172.7	181.1
85°	59.2	68.2	87.1	105.7	113.8
87.5°	19.9	26.7	36.8	40.0	38.1
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	17.03	18.61	17.40	18.93	19.24	17.11	18.70	17.48	19.01	19.32
	3H	18.50	19.93	18.88	20.26	20.62	18.64	20.06	19.01	20.39	20.75
	4H	18.93	20.27	19.33	20.62	21.00	19.10	20.44	19.50	20.78	21.16
	6H	19.15	20.39	19.56	20.75	21.14	19.35	20.59	19.76	20.95	21.35
	8H	19.18	20.36	19.60	20.75	21.15	19.42	20.60	19.84	20.99	21.39
	12H	19.18	20.31	19.61	20.69	21.12	19.46	20.59	19.89	20.97	21.40
4H	2H	17.57	18.91	17.97	19.26	19.64	17.64	18.98	18.04	19.32	19.70
	3H	19.23	20.34	19.64	20.74	21.14	19.35	20.47	19.76	20.87	21.27
	4H	19.74	20.74	20.17	21.16	21.60	19.91	20.92	20.34	21.33	21.77
	6H	20.04	20.91	20.49	21.35	21.81	20.26	21.13	20.71	21.57	22.03
	8H	20.08	20.90	20.54	21.34	21.81	20.35	21.16	20.81	21.61	22.07
	12H	20.10	20.83	20.58	21.31	21.78	20.42	21.15	20.90	21.63	22.10
8H	4H	19.94	20.76	20.40	21.20	21.66	20.09	20.91	20.56	21.35	21.82
	6H	20.29	20.97	20.79	21.46	21.93	20.51	21.18	21.00	21.67	22.15
	8H	20.37	20.97	20.88	21.48	21.97	20.64	21.24	21.15	21.75	22.24
	12H	20.41	20.94	20.92	21.43	22.00	20.76	21.29	21.27	21.78	22.35
12H	4H	19.94	20.67	20.43	21.15	21.62	20.09	20.82	20.57	21.30	21.77
	6H	20.30	20.91	20.81	21.41	21.90	20.51	21.11	21.02	21.62	22.11
	8H	20.41	20.95	20.92	21.44	22.00	20.68	21.21	21.19	21.71	22.27