

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: P1499328

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499328
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-LO-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

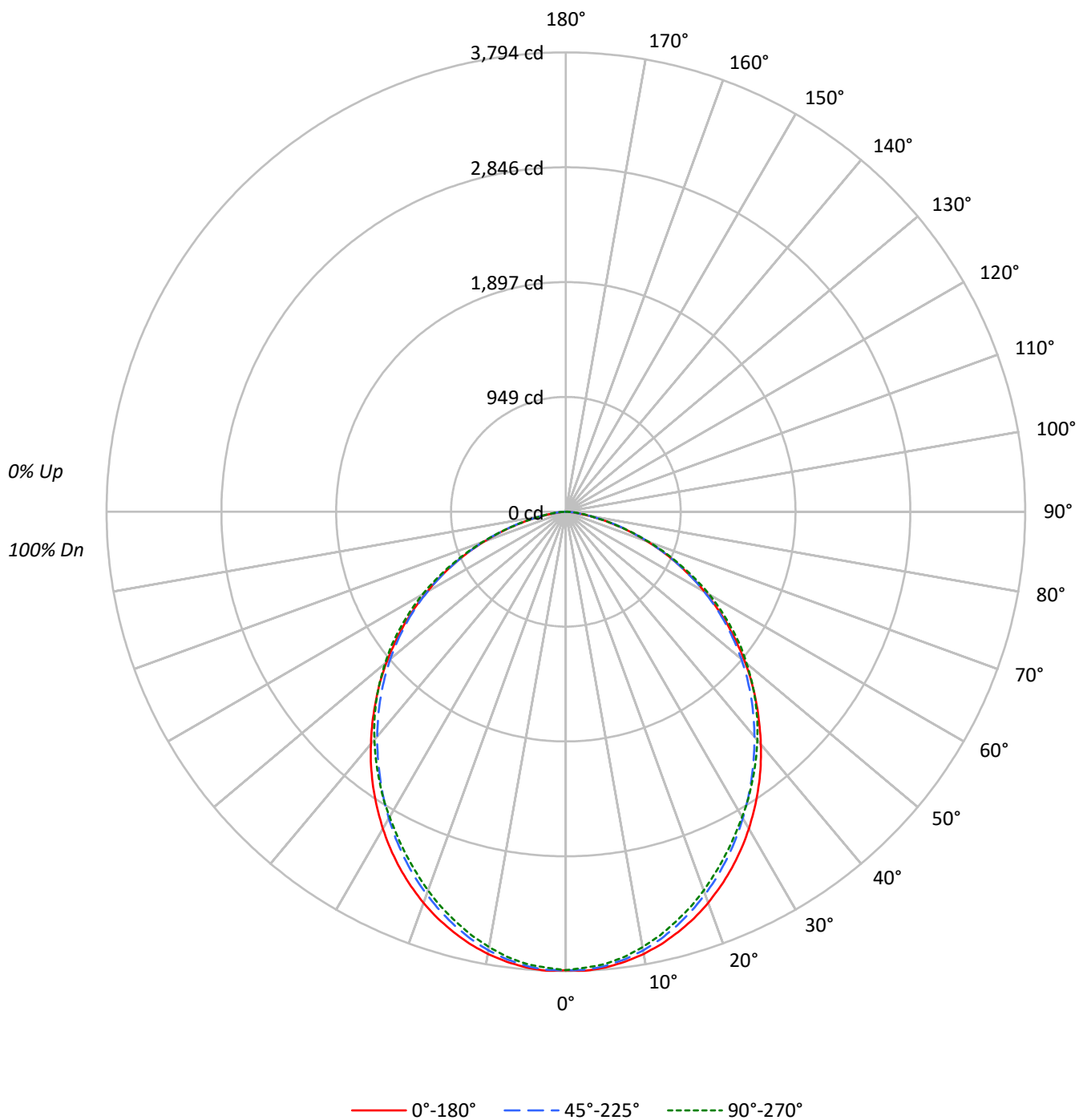
Lumens per Lamp: N/A
Luminaire Lumens: 9216.0 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 96.2
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°	5094	5094	5094
5°	5102	5085	5063
10°	5066	5025	4987
15°	5004	4931	4883
20°	4922	4814	4766
25°	4819	4684	4637
30°	4696	4543	4522
35°	4558	4396	4423
40°	4399	4257	4321
45°	4229	4115	4215
50°	4044	3962	4081
55°	3830	3779	3912
60°	3573	3552	3688
65°	3249	3250	3343
70°	2806	2838	2878
75°	2235	2300	2272
80°	1514	1598	1602
85°	778	1067	1363

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4229 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.1	3.9
10°-20°	997.2	10.8
20°-30°	1458.1	15.8
30°-40°	1691.0	18.3
40°-50°	1688.1	18.3
50°-60°	1454.1	15.8
60°-70°	1014.8	11.0
70°-80°	468.7	5.1
80°-90°	87.9	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°	2811.3	30.5
0°-40°	4502.4	48.9
0°-60°	7644.6	82.9
0°-90°	9216.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9216.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3786	3786	3786	3786	3786	
5°	3777	3764	3765	3743	3748	358
15°	3592	3567	3540	3503	3505	1013
25°	3246	3209	3155	3119	3123	1494
35°	2775	2727	2676	2675	2692	1734
45°	2223	2181	2163	2192	2215	1715
55°	1633	1600	1611	1650	1668	1458
65°	1021	1005	1021	1039	1050	1010
75°	430	425	442	439	437	463
85°	50	56	69	83	88	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3786.2	3786.2	3786.2	3786.2	3786.2
2.5°	3793.9	3781.5	3786.2	3769.6	3768.6
5°	3777.4	3763.7	3765.0	3743.4	3748.3
7.5°	3748.3	3732.5	3728.2	3703.7	3708.2
10°	3708.0	3688.5	3677.9	3647.7	3650.1
12.5°	3656.4	3634.3	3615.8	3581.1	3585.0
15°	3592.2	3567.3	3539.7	3503.1	3505.3
17.5°	3521.3	3494.3	3455.4	3416.7	3423.0
20°	3437.6	3408.1	3362.2	3321.9	3328.4
22.5°	3344.9	3311.3	3263.5	3223.5	3227.1
25°	3245.8	3208.7	3155.3	3119.0	3123.4
27.5°	3138.2	3096.9	3042.3	3010.0	3017.5
30°	3022.5	2979.1	2924.0	2900.0	2910.6
32.5°	2900.8	2856.3	2802.8	2790.2	2806.1
35°	2774.8	2727.4	2676.3	2674.8	2692.5
37.5°	2643.6	2597.0	2551.1	2560.4	2578.8
40°	2504.8	2461.1	2423.8	2440.5	2460.4
42.5°	2365.2	2323.1	2294.8	2319.2	2340.6
45°	2222.7	2180.9	2162.8	2192.4	2215.2
47.5°	2081.0	2038.9	2030.0	2064.1	2084.6
50°	1931.9	1894.3	1892.6	1929.5	1949.6
52.5°	1781.4	1746.6	1753.2	1792.8	1817.3
55°	1632.7	1600.4	1611.0	1650.4	1667.8
57.5°	1480.0	1454.3	1468.2	1503.2	1520.5
60°	1327.8	1304.3	1320.1	1353.7	1370.6
62.5°	1174.0	1153.5	1171.7	1199.9	1210.9
65°	1020.6	1005.1	1020.9	1039.0	1049.9
67.5°	869.4	854.9	872.1	889.5	893.4
70°	713.2	704.1	721.4	731.7	731.7
72.5°	569.4	560.5	577.0	580.8	578.0
75°	430.0	425.3	442.4	438.7	437.1
77.5°	303.4	305.6	314.6	311.8	311.1
80°	195.4	202.3	206.2	208.2	206.7
82.5°	109.8	116.1	122.0	136.5	142.2
85°	50.4	56.5	69.1	82.7	88.3
87.5°	17.0	21.8	29.0	31.2	29.6
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	16.58	18.17	16.95	18.48	18.80	16.81	18.39	17.17	18.70	19.02
	3H	18.05	19.47	18.43	19.80	20.16	18.27	19.70	18.65	20.03	20.39
	4H	18.47	19.81	18.87	20.16	20.54	18.69	20.03	19.09	20.38	20.75
	6H	18.68	19.92	19.09	20.28	20.67	18.90	20.13	19.31	20.50	20.89
	8H	18.71	19.89	19.13	20.28	20.68	18.94	20.12	19.37	20.51	20.91
	12H	18.71	19.83	19.14	20.22	20.65	18.97	20.10	19.40	20.48	20.91
4H	2H	17.14	18.48	17.54	18.83	19.20	17.32	18.66	17.72	19.01	19.39
	3H	18.78	19.90	19.19	20.29	20.70	18.98	20.09	19.39	20.49	20.89
	4H	19.29	20.30	19.73	20.71	21.15	19.48	20.48	19.92	20.90	21.34
	6H	19.58	20.45	20.04	20.89	21.35	19.77	20.64	20.23	21.08	21.54
	8H	19.62	20.44	20.08	20.88	21.35	19.84	20.65	20.30	21.10	21.56
	12H	19.64	20.36	20.12	20.84	21.31	19.89	20.62	20.37	21.09	21.56
8H	4H	19.48	20.30	19.94	20.74	21.20	19.65	20.47	20.12	20.91	21.38
	6H	19.82	20.50	20.32	20.99	21.46	20.00	20.67	20.50	21.16	21.64
	8H	19.89	20.50	20.41	21.00	21.49	20.10	20.70	20.61	21.21	21.70
	12H	19.93	20.46	20.44	20.95	21.51	20.19	20.72	20.70	21.22	21.78
12H	4H	19.48	20.21	19.96	20.69	21.16	19.65	20.38	20.13	20.86	21.33
	6H	19.82	20.43	20.34	20.93	21.42	20.00	20.60	20.51	21.11	21.59
	8H	19.93	20.46	20.44	20.95	21.51	20.14	20.67	20.64	21.16	21.72