

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: P1499340

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499340
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-50-90
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

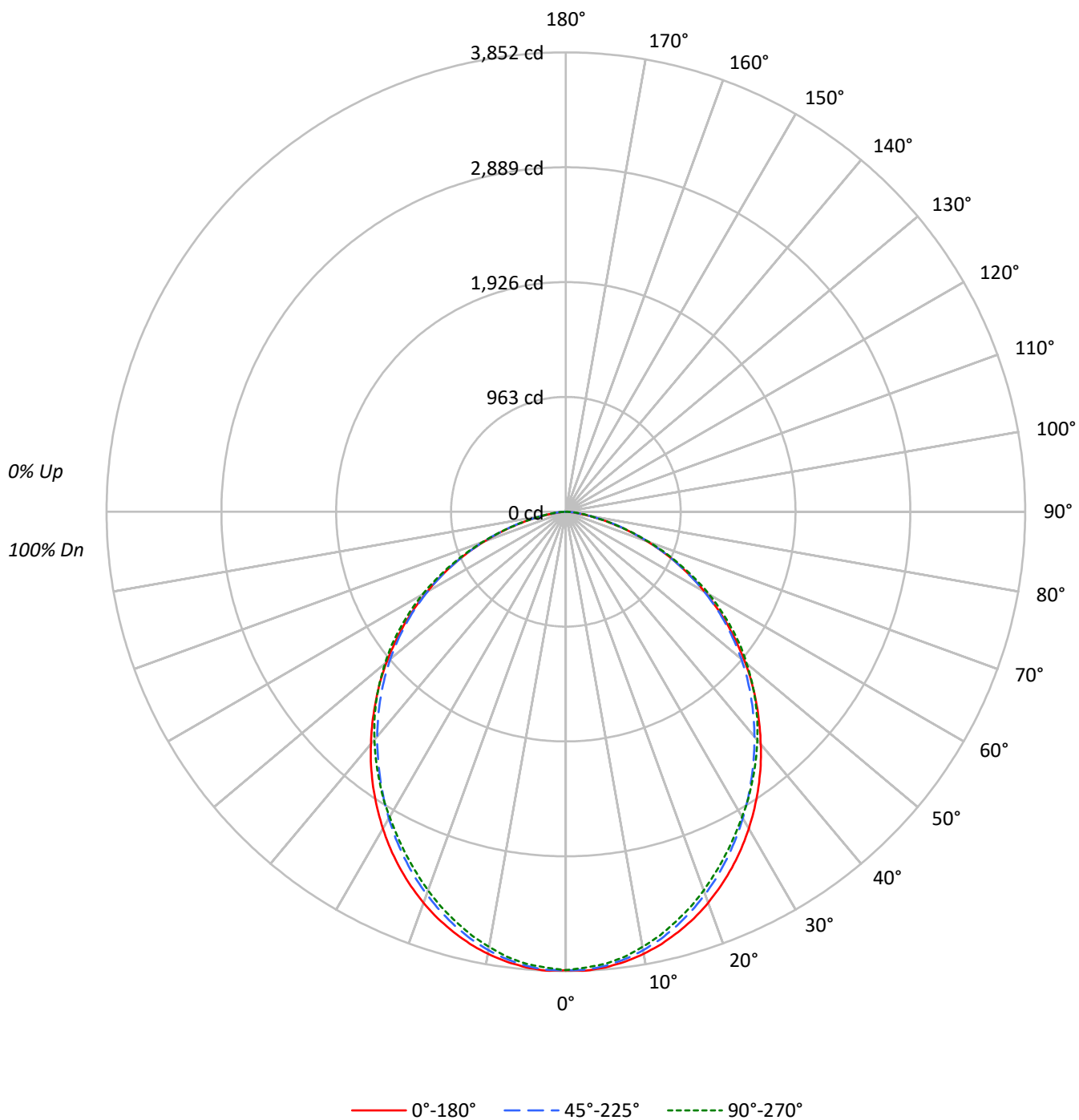
Lumens per Lamp: N/A
Luminaire Lumens: 9356.0 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	5172	5172	5172
5°	5179	5163	5140
10°	5143	5101	5063
15°	5080	5005	4957
20°	4997	4887	4838
25°	4892	4755	4707
30°	4767	4612	4591
35°	4627	4463	4490
40°	4466	4322	4387
45°	4294	4178	4279
50°	4105	4022	4143
55°	3888	3837	3972
60°	3627	3606	3744
65°	3299	3300	3394
70°	2849	2881	2922
75°	2270	2335	2307
80°	1537	1622	1626
85°	790	1084	1383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4294 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.5	3.9
10°-20°	1012.3	10.8
20°-30°	1480.2	15.8
30°-40°	1716.7	18.3
40°-50°	1713.7	18.3
50°-60°	1476.2	15.8
60°-70°	1030.2	11.0
70°-80°	475.9	5.1
80°-90°	89.2	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°	2854.0	30.5
0°-40°	4570.8	48.9
0°-60°	7760.7	82.9
0°-90°	9356.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9356.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3844	3844	3844	3844	3844	
5°	3835	3821	3822	3800	3805	364
15°	3647	3622	3593	3556	3559	1028
25°	3295	3258	3203	3166	3171	1517
35°	2817	2769	2717	2716	2733	1761
45°	2256	2214	2196	2226	2249	1741
55°	1658	1625	1636	1676	1693	1480
65°	1036	1020	1036	1055	1066	1025
75°	437	432	449	445	444	470
85°	51	58	70	84	90	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3843.7	3843.7	3843.7	3843.7	3843.7
2.5°	3851.6	3839.0	3843.7	3827.0	3825.9
5°	3834.8	3820.9	3822.3	3800.3	3805.3
7.5°	3805.3	3789.2	3784.9	3760.0	3764.6
10°	3764.4	3744.6	3733.8	3703.2	3705.6
12.5°	3712.0	3689.5	3670.7	3635.4	3639.4
15°	3646.7	3621.5	3593.4	3556.3	3558.6
17.5°	3574.9	3547.5	3507.9	3468.7	3475.0
20°	3489.9	3459.8	3413.3	3372.4	3379.1
22.5°	3395.8	3361.5	3313.1	3272.4	3276.1
25°	3295.1	3257.5	3203.1	3166.3	3170.9
27.5°	3185.9	3143.9	3088.6	3055.6	3063.3
30°	3068.5	3024.4	2968.5	2944.0	2954.8
32.5°	2944.9	2899.7	2845.3	2832.5	2848.7
35°	2816.9	2768.9	2717.0	2715.5	2733.3
37.5°	2683.8	2636.5	2589.8	2599.3	2618.0
40°	2542.9	2498.4	2460.7	2477.5	2497.7
42.5°	2401.1	2358.4	2329.7	2354.3	2376.1
45°	2256.5	2214.1	2195.6	2225.6	2248.8
47.5°	2112.7	2069.9	2060.9	2095.3	2116.3
50°	1961.2	1923.1	1921.4	1958.8	1979.2
52.5°	1808.5	1773.2	1779.7	1820.0	1844.9
55°	1657.6	1624.8	1635.5	1675.5	1693.2
57.5°	1502.4	1476.4	1490.4	1526.1	1543.5
60°	1348.0	1324.0	1340.1	1374.2	1391.4
62.5°	1191.9	1171.1	1189.6	1218.2	1229.3
65°	1036.1	1020.4	1036.4	1054.8	1065.9
67.5°	882.5	867.9	885.3	903.0	907.1
70°	724.1	714.8	732.4	742.9	742.8
72.5°	578.1	569.1	585.7	589.7	586.8
75°	436.6	431.8	449.1	445.4	443.8
77.5°	308.0	310.3	319.3	316.5	315.8
80°	198.4	205.3	209.3	211.4	209.9
82.5°	111.5	117.9	124.0	138.6	144.4
85°	51.2	57.5	70.2	83.9	89.6
87.5°	17.3	22.2	29.5	31.7	30.0
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	16.64	18.22	17.00	18.53	18.85	16.86	18.44	17.22	18.76	19.07
	3H	18.10	19.52	18.48	19.85	20.21	18.33	19.75	18.70	20.08	20.44
	4H	18.53	19.86	18.92	20.21	20.59	18.74	20.08	19.14	20.43	20.80
	6H	18.73	19.97	19.14	20.33	20.73	18.95	20.19	19.36	20.55	20.94
	8H	18.76	19.94	19.19	20.33	20.73	19.00	20.17	19.42	20.56	20.96
	12H	18.76	19.89	19.19	20.27	20.70	19.02	20.15	19.45	20.53	20.96
4H	2H	17.19	18.53	17.59	18.88	19.26	17.38	18.71	17.78	19.06	19.44
	3H	18.84	19.95	19.25	20.35	20.75	19.03	20.14	19.44	20.54	20.94
	4H	19.35	20.35	19.78	20.76	21.20	19.54	20.54	19.97	20.95	21.39
	6H	19.63	20.50	20.09	20.94	21.40	19.82	20.69	20.28	21.14	21.59
	8H	19.68	20.49	20.14	20.93	21.40	19.89	20.70	20.35	21.15	21.61
	12H	19.69	20.42	20.17	20.89	21.36	19.94	20.67	20.42	21.15	21.62
8H	4H	19.53	20.35	20.00	20.79	21.26	19.71	20.52	20.17	20.96	21.43
	6H	19.88	20.55	20.37	21.04	21.51	20.05	20.72	20.55	21.21	21.69
	8H	19.95	20.55	20.46	21.06	21.54	20.16	20.76	20.67	21.26	21.75
	12H	19.98	20.51	20.49	21.00	21.57	20.25	20.78	20.76	21.27	21.83
12H	4H	19.53	20.26	20.02	20.74	21.21	19.70	20.43	20.19	20.91	21.38
	6H	19.88	20.48	20.39	20.99	21.47	20.05	20.65	20.56	21.16	21.65
	8H	19.98	20.51	20.49	21.00	21.57	20.19	20.72	20.70	21.21	21.77