

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: P1498950

Luminaire Tested: MAE-G-4-120-1HI-LO-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1HI-LO-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

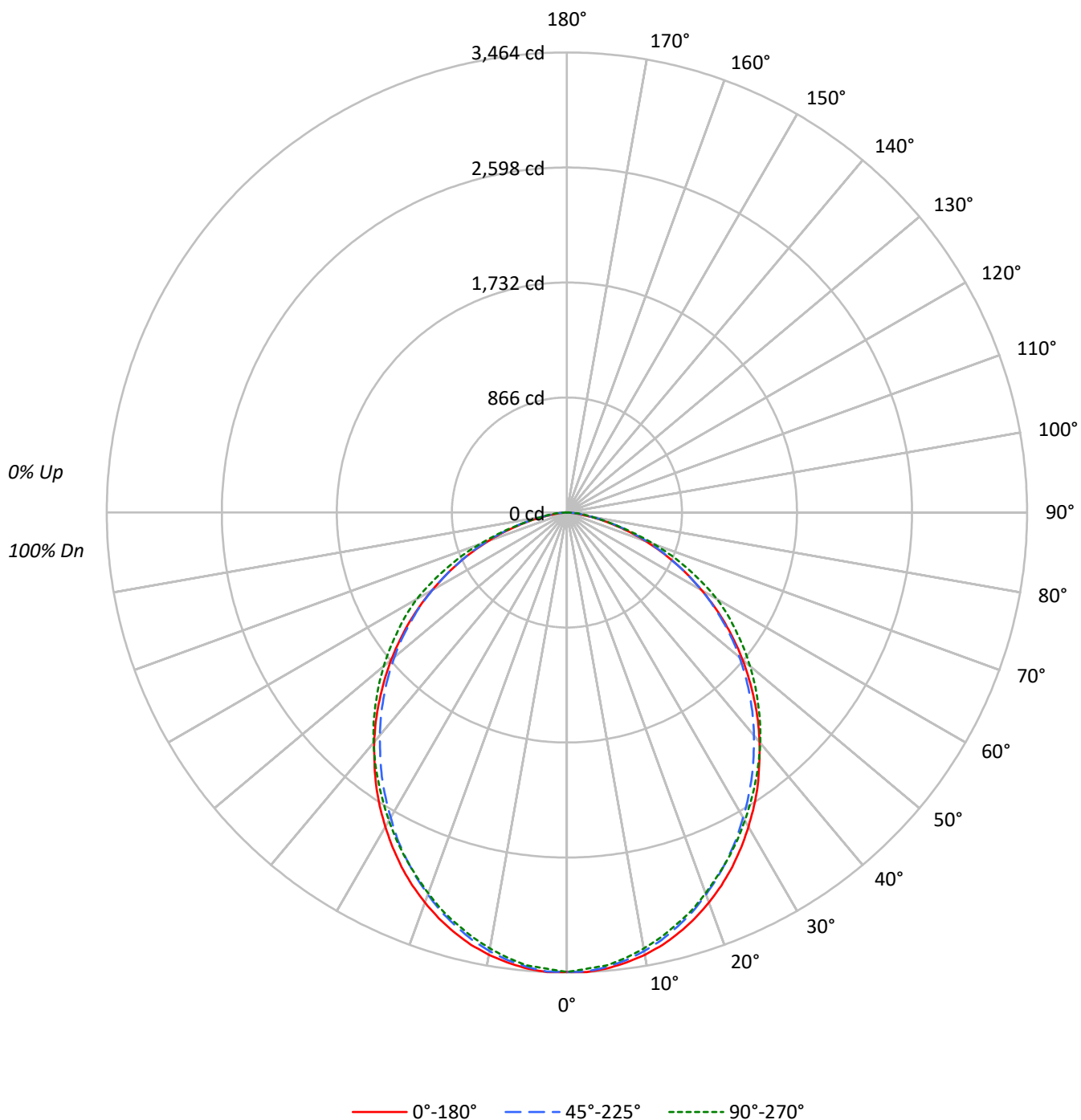
Lumens per Lamp: N/A
Luminaire Lumens: 8371.0 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 92.5
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
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	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	45	39	51	44	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4655	4655	4655
5°	4655	4640	4624
10°	4620	4582	4554
15°	4560	4493	4467
20°	4475	4383	4369
25°	4371	4260	4265
30°	4246	4120	4162
35°	4114	3989	4065
40°	3964	3847	3976
45°	3794	3705	3873
50°	3615	3552	3766
55°	3409	3367	3641
60°	3153	3154	3515
65°	2859	2862	3204
70°	2473	2535	2758
75°	1962	2087	2112
80°	1344	1514	1532
85°	744	1088	1354

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3873 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.1	3.9
10°-20°	910.2	10.9
20°-30°	1329.1	15.9
30°-40°	1536.9	18.4
40°-50°	1528.0	18.3
50°-60°	1312.6	15.7
60°-70°	918.2	11.0
70°-80°	426.1	5.1
80°-90°	84.8	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°	2564.4	30.6
0°-40°	4101.3	49.0
0°-60°	6941.9	82.9
0°-90°	8371.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8371.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3459	3459	3459	3459	3459	
5°	3447	3444	3435	3416	3423	327
15°	3273	3260	3226	3199	3207	922
25°	2944	2914	2870	2857	2873	1355
35°	2505	2465	2428	2447	2475	1565
45°	1994	1962	1947	2001	2036	1538
55°	1453	1424	1435	1507	1552	1297
65°	898	876	899	974	1006	889
75°	377	369	402	414	406	408
85°	48	57	70	83	88	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3459.4	3459.4	3459.4	3459.4	3459.4
2.5°	3463.6	3465.9	3459.4	3435.8	3438.3
5°	3446.8	3443.5	3435.4	3416.3	3423.4
7.5°	3418.8	3415.0	3400.5	3379.0	3384.0
10°	3381.6	3374.2	3353.6	3327.6	3333.0
12.5°	3333.7	3324.8	3296.5	3268.8	3275.6
15°	3273.3	3260.0	3225.5	3199.4	3207.2
17.5°	3203.8	3190.7	3150.2	3122.2	3136.4
20°	3125.2	3106.2	3060.9	3036.9	3051.0
22.5°	3039.3	3014.7	2968.7	2948.2	2962.0
25°	2944.5	2913.9	2869.7	2857.2	2873.1
27.5°	2841.8	2809.0	2766.4	2757.5	2778.7
30°	2732.8	2698.2	2652.1	2655.5	2678.8
32.5°	2621.7	2585.6	2541.3	2554.4	2577.7
35°	2504.9	2464.9	2428.3	2447.0	2475.1
37.5°	2379.8	2342.6	2307.7	2343.2	2370.5
40°	2256.6	2217.8	2190.0	2233.1	2263.9
42.5°	2128.4	2092.4	2070.3	2118.3	2153.8
45°	1994.0	1962.2	1947.1	2000.8	2035.5
47.5°	1860.2	1827.7	1822.7	1880.6	1919.4
50°	1727.2	1697.6	1696.7	1760.2	1799.0
52.5°	1589.1	1560.2	1568.9	1633.8	1678.9
55°	1453.2	1423.6	1435.4	1506.7	1552.1
57.5°	1313.8	1293.3	1305.3	1381.3	1435.2
60°	1171.6	1150.6	1172.0	1258.2	1306.2
62.5°	1034.1	1012.6	1033.3	1125.6	1155.6
65°	898.1	876.1	898.8	973.8	1006.5
67.5°	765.5	743.8	774.9	840.3	860.0
70°	628.7	610.0	644.4	695.5	701.0
72.5°	501.6	484.8	522.9	551.7	548.2
75°	377.4	368.7	401.5	413.7	406.3
77.5°	269.4	264.7	290.8	293.5	286.8
80°	173.5	177.7	195.4	195.2	197.7
82.5°	100.6	107.9	120.6	136.2	138.9
85°	48.2	57.0	70.5	83.2	87.7
87.5°	16.9	22.7	28.9	31.8	31.0
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	16.10	17.68	16.46	17.99	18.31	16.60	18.18	16.96	18.49	18.81
	3H	17.52	18.95	17.90	19.27	19.63	18.14	19.57	18.52	19.89	20.26
	4H	17.94	19.27	18.34	19.62	20.00	18.56	19.90	18.96	20.25	20.63
	6H	18.15	19.38	18.56	19.75	20.14	18.77	20.01	19.18	20.37	20.76
	8H	18.18	19.35	18.60	19.74	20.14	18.82	20.00	19.25	20.39	20.79
	12H	18.18	19.31	18.61	19.69	20.12	18.86	19.98	19.29	20.36	20.79
4H	2H	16.64	17.98	17.04	18.33	18.71	17.05	18.39	17.45	18.74	19.11
	3H	18.25	19.36	18.66	19.76	20.16	18.80	19.91	19.21	20.31	20.71
	4H	18.75	19.75	19.18	20.16	20.60	19.32	20.32	19.75	20.73	21.17
	6H	19.03	19.90	19.49	20.34	20.80	19.61	20.48	20.07	20.92	21.38
	8H	19.08	19.89	19.54	20.34	20.80	19.69	20.50	20.15	20.94	21.41
	12H	19.10	19.83	19.58	20.30	20.77	19.75	20.48	20.23	20.95	21.42
8H	4H	18.96	19.77	19.42	20.21	20.68	19.48	20.29	19.94	20.73	21.20
	6H	19.30	19.97	19.80	20.46	20.94	19.83	20.50	20.33	20.99	21.47
	8H	19.38	19.98	19.89	20.49	20.98	19.95	20.55	20.46	21.06	21.54
	12H	19.42	19.95	19.93	20.45	21.01	20.05	20.59	20.56	21.08	21.64
12H	4H	18.96	19.69	19.44	20.17	20.64	19.47	20.20	19.95	20.68	21.15
	6H	19.31	19.91	19.82	20.42	20.91	19.83	20.43	20.34	20.94	21.43
	8H	19.42	19.95	19.93	20.45	21.01	19.98	20.52	20.49	21.01	21.57