

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: P1498044

Luminaire Tested: MAE-G-2-120-1HI-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498044
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-2-120-1HI-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

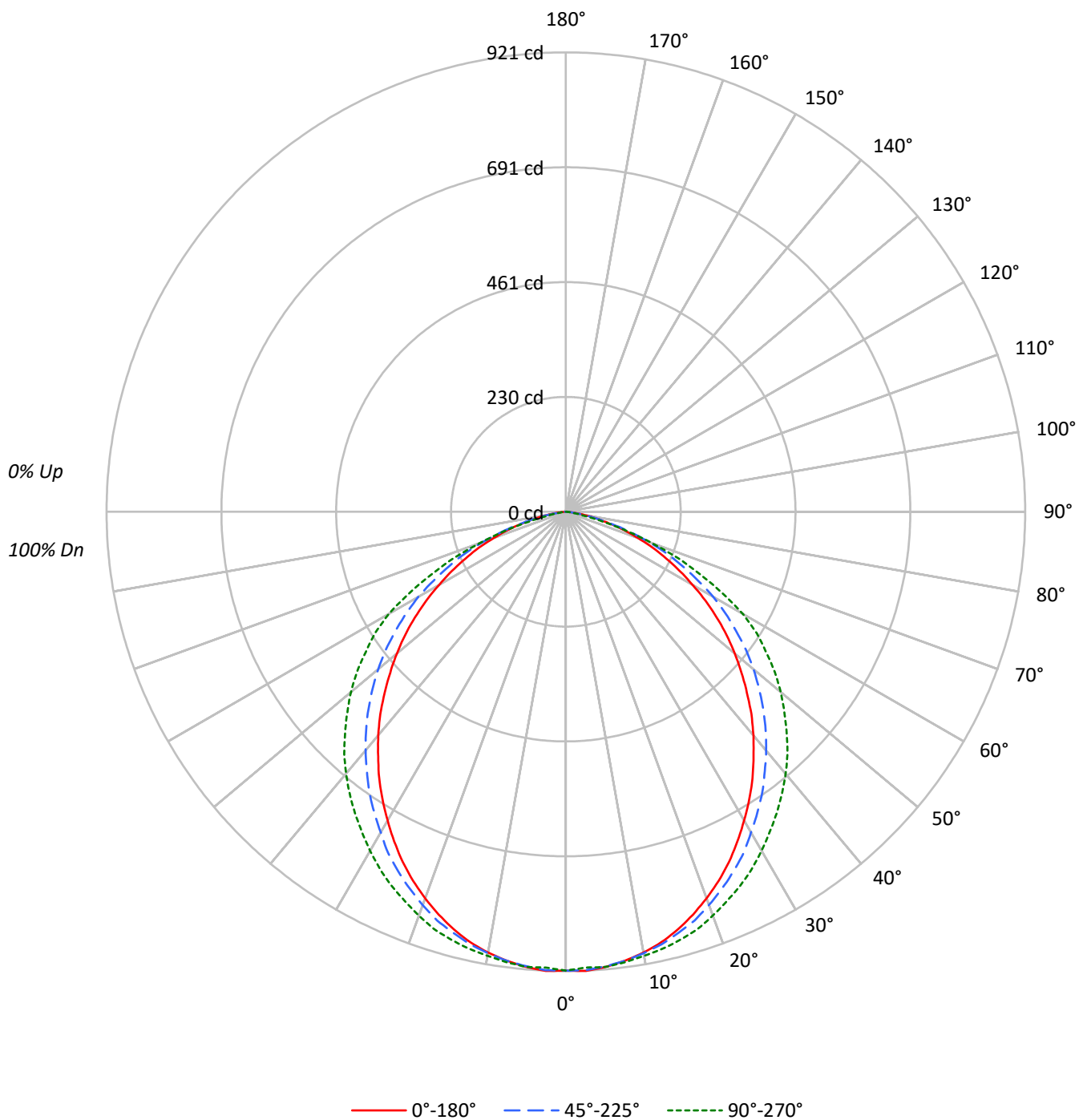
Lumens per Lamp: N/A
Luminaire Lumens: 2316.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 22.6
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

TEST NUMBER: P1498044

CATALOG NUMBER: MAE-G-2-120-1HI-50-90

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	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	92	82	74	68	90	80	73	67	77	71	66		75	70	65		72
4	84	73	65	58	82	72	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		55	48	43		53
7	67	54	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	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2475	2475	2475
5°	2474	2471	2474
10°	2452	2456	2470
15°	2415	2434	2474
20°	2361	2403	2468
25°	2299	2362	2456
30°	2221	2307	2439
35°	2144	2257	2422
40°	2055	2195	2408
45°	1955	2131	2383
50°	1851	2056	2355
55°	1733	1956	2297
60°	1581	1838	2208
65°	1416	1643	1896
70°	1208	1385	1448
75°	936	1004	812
80°	615	533	287
85°	327	244	164

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2383 cd/sqm

TEST NUMBER: P1498044

CATALOG NUMBER: MAE-G-2-120-1HI-50-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	3.8
10°-20°	246.9	10.7
20°-30°	367.1	15.9
30°-40°	431.6	18.6
40°-50°	435.6	18.8
50°-60°	378.2	16.3
60°-70°	257.4	11.1
70°-80°	100.3	4.3
80°-90°	12.0	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°	700.8	30.3
0°-40°	1132.4	48.9
0°-60°	1946.3	84.0
0°-90°	2316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2316.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	920	920	920	920	920	
5°	916	915	915	915	916	87
15°	867	868	874	883	888	244
25°	774	778	796	815	827	356
35°	653	660	687	719	737	408
45°	514	527	560	604	626	396
55°	369	381	417	465	490	330
65°	222	233	258	286	298	221
75°	90	95	97	87	78	98
85°	11	11	8	7	5	15
90°	0	0	0	0	0	

TEST NUMBER: P1498044

CATALOG NUMBER: MAE-G-2-120-1HI-50-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	919.9	919.9	919.9	919.9	919.9
2.5°	921.3	921.3	919.9	916.0	914.6
5°	916.0	914.6	914.6	914.6	916.0
7.5°	908.0	908.0	908.0	909.3	910.7
10°	897.4	897.4	898.8	901.4	904.0
12.5°	884.2	885.5	888.2	893.5	897.4
15°	867.0	868.3	873.6	882.9	888.2
17.5°	847.1	851.1	859.0	869.6	877.6
20°	824.6	828.6	839.2	852.4	861.7
22.5°	800.8	804.8	818.0	833.9	844.5
25°	774.3	778.3	795.5	815.4	827.3
27.5°	745.2	750.5	771.7	792.9	807.4
30°	714.8	721.4	742.6	769.0	784.9
32.5°	684.3	692.3	714.8	745.2	761.1
35°	652.6	660.5	687.0	718.7	737.3
37.5°	618.1	627.4	655.2	693.6	712.1
40°	585.1	594.3	624.8	665.8	685.6
42.5°	550.6	561.2	593.0	635.3	657.9
45°	513.6	526.8	559.9	603.6	626.1
47.5°	477.8	489.7	525.5	570.5	594.3
50°	442.1	455.3	491.1	537.4	562.5
52.5°	406.4	418.3	455.3	501.7	528.1
55°	369.3	381.2	416.9	464.6	489.7
57.5°	332.2	346.8	379.9	426.2	454.0
60°	293.8	307.1	341.5	387.8	410.3
62.5°	258.1	270.0	299.1	342.8	353.4
65°	222.4	233.0	258.1	285.9	297.8
67.5°	189.3	197.2	219.7	238.3	243.6
70°	153.5	161.5	176.0	186.6	184.0
72.5°	121.8	127.1	136.3	135.0	128.4
75°	90.0	95.3	96.6	87.4	78.1
77.5°	63.5	66.2	62.2	49.0	39.7
80°	39.7	41.0	34.4	21.2	18.5
82.5°	22.5	22.5	15.9	13.2	10.6
85°	10.6	10.6	7.9	6.6	5.3
87.5°	4.0	4.0	2.6	2.6	2.6
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	13.75	15.33	14.12	15.65	15.96	15.33	16.91	15.70	17.23	17.54
	3H	15.09	16.51	15.47	16.83	17.19	16.60	18.02	16.98	18.35	18.71
	4H	15.46	16.79	15.86	17.13	17.51	16.80	18.13	17.20	18.47	18.85
	6H	15.62	16.85	16.03	17.21	17.61	16.79	18.02	17.21	18.39	18.78
	8H	15.64	16.81	16.06	17.19	17.59	16.77	17.94	17.19	18.33	18.73
	12H	15.63	16.75	16.06	17.13	17.56	16.74	17.86	17.17	18.24	18.67
4H	2H	14.42	15.75	14.82	16.10	16.47	15.71	17.04	16.11	17.39	17.76
	3H	15.92	17.02	16.33	17.42	17.82	17.15	18.25	17.56	18.65	19.05
	4H	16.36	17.35	16.79	17.76	18.20	17.40	18.39	17.83	18.80	19.24
	6H	16.58	17.44	17.04	17.88	18.34	17.43	18.29	17.88	18.73	19.19
	8H	16.61	17.41	17.07	17.85	18.32	17.40	18.20	17.86	18.65	19.11
	12H	16.61	17.33	17.09	17.80	18.27	17.38	18.09	17.86	18.57	19.04
8H	4H	16.52	17.32	16.98	17.76	18.23	17.48	18.29	17.95	18.73	19.20
	6H	16.78	17.43	17.27	17.92	18.40	17.52	18.18	18.01	18.67	19.14
	8H	16.82	17.41	17.33	17.91	18.40	17.49	18.08	18.01	18.59	19.08
	12H	16.84	17.36	17.35	17.85	18.41	17.48	18.00	17.99	18.49	19.05
12H	4H	16.50	17.21	16.98	17.69	18.16	17.47	18.19	17.95	18.66	19.13
	6H	16.75	17.34	17.26	17.85	18.33	17.49	18.08	18.00	18.59	19.08
	8H	16.81	17.33	17.32	17.83	18.39	17.49	18.01	18.00	18.50	19.06