

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: P1498041

Luminaire Tested: MAE-G-2-120-1HI-40

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498041
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-40
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

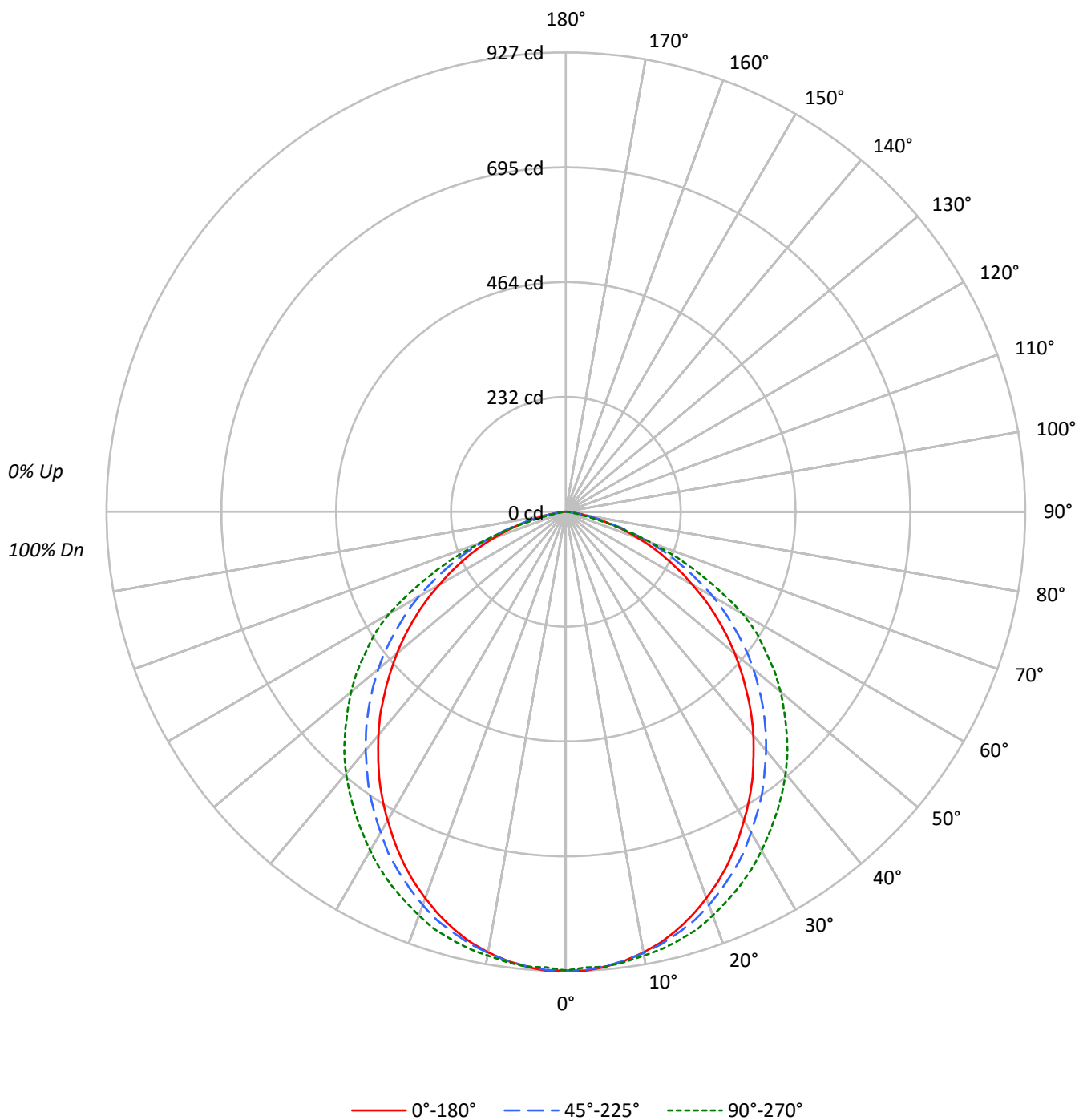
Lumens per Lamp: N/A
Luminaire Lumens: 2330.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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: P1498041

CATALOG NUMBER: MAE-G-2-120-1HI-40

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°	2491	2491	2491
5°	2489	2486	2489
10°	2467	2471	2485
15°	2430	2449	2489
20°	2376	2418	2483
25°	2313	2376	2471
30°	2234	2321	2454
35°	2157	2270	2437
40°	2068	2208	2423
45°	1966	2144	2397
50°	1862	2068	2369
55°	1743	1968	2312
60°	1591	1849	2222
65°	1424	1654	1908
70°	1216	1393	1456
75°	942	1011	817
80°	618	536	288
85°	330	247	164

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2397 cd/sqm

TEST NUMBER: P1498041

CATALOG NUMBER: MAE-G-2-120-1HI-40

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	3.8
10°-20°	248.4	10.7
20°-30°	369.3	15.9
30°-40°	434.2	18.6
40°-50°	438.2	18.8
50°-60°	380.5	16.3
60°-70°	259.0	11.1
70°-80°	100.9	4.3
80°-90°	12.1	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°	705.1	30.3
0°-40°	1139.3	48.9
0°-60°	1958.0	84.0
0°-90°	2330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2330.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	926	926	926	926	926	
5°	922	920	920	920	922	87
15°	872	874	879	888	894	246
25°	779	783	800	820	832	358
35°	656	664	691	723	742	410
45°	517	530	563	607	630	399
55°	372	384	420	467	493	332
65°	224	234	260	288	300	222
75°	91	96	97	88	79	99
85°	11	11	8	7	5	16
90°	0	0	0	0	0	

TEST NUMBER: P1498041

CATALOG NUMBER: MAE-G-2-120-1HI-40

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	925.5	925.5	925.5	925.5	925.5
2.5°	926.8	926.8	925.5	921.5	920.2
5°	921.5	920.2	920.2	920.2	921.5
7.5°	913.5	913.5	913.5	914.8	916.2
10°	902.9	902.9	904.2	906.9	909.5
12.5°	889.5	890.9	893.5	898.9	902.9
15°	872.2	873.6	878.9	888.2	893.5
17.5°	852.3	856.2	864.2	874.9	882.9
20°	829.6	833.6	844.3	857.6	866.9
22.5°	805.6	809.6	823.0	838.9	849.6
25°	779.0	783.0	800.3	820.3	832.3
27.5°	749.7	755.0	776.3	797.7	812.3
30°	719.1	725.7	747.1	773.7	789.7
32.5°	688.5	696.5	719.1	749.7	765.7
35°	656.5	664.5	691.1	723.1	741.7
37.5°	621.9	631.2	659.2	697.8	716.4
40°	588.6	597.9	628.5	669.8	689.8
42.5°	554.0	564.6	596.6	639.2	661.8
45°	516.7	530.0	563.3	607.2	629.9
47.5°	480.7	492.7	528.7	573.9	597.9
50°	444.8	458.1	494.0	540.6	565.9
52.5°	408.8	420.8	458.1	504.7	531.3
55°	371.5	383.5	419.5	467.4	492.7
57.5°	334.2	348.9	382.2	428.8	456.8
60°	295.6	308.9	343.6	390.2	412.8
62.5°	259.7	271.7	301.0	344.9	355.5
65°	223.7	234.4	259.7	287.6	299.6
67.5°	190.4	198.4	221.1	239.7	245.0
70°	154.5	162.5	177.1	187.8	185.1
72.5°	122.5	127.8	137.2	135.8	129.2
75°	90.6	95.9	97.2	87.9	78.6
77.5°	63.9	66.6	62.6	49.3	39.9
80°	39.9	41.3	34.6	21.3	18.6
82.5°	22.6	22.6	16.0	13.3	10.7
85°	10.7	10.7	8.0	6.7	5.3
87.5°	4.0	4.0	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1498041

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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	13.77	15.35	14.14	15.67	15.98	15.35	16.93	15.72	17.25	17.56
	3H	15.11	16.53	15.49	16.85	17.22	16.62	18.04	17.00	18.37	18.73
	4H	15.48	16.81	15.88	17.16	17.53	16.82	18.15	17.22	18.50	18.87
	6H	15.64	16.87	16.05	17.24	17.63	16.82	18.04	17.23	18.41	18.80
	8H	15.66	16.83	16.08	17.22	17.62	16.79	17.96	17.22	18.35	18.75
	12H	15.65	16.77	16.08	17.15	17.58	16.76	17.88	17.19	18.26	18.69
4H	2H	14.44	15.77	14.84	16.12	16.49	15.73	17.06	16.13	17.41	17.79
	3H	15.94	17.04	16.35	17.44	17.84	17.17	18.27	17.58	18.67	19.07
	4H	16.38	17.37	16.81	17.78	18.22	17.42	18.41	17.85	18.83	19.26
	6H	16.60	17.46	17.06	17.90	18.36	17.45	18.31	17.91	18.75	19.21
	8H	16.63	17.43	17.09	17.87	18.34	17.42	18.22	17.88	18.67	19.13
	12H	16.63	17.35	17.11	17.82	18.30	17.40	18.12	17.88	18.59	19.06
8H	4H	16.54	17.34	17.00	17.78	18.25	17.51	18.31	17.97	18.75	19.22
	6H	16.80	17.46	17.29	17.95	18.42	17.54	18.20	18.03	18.69	19.16
	8H	16.84	17.43	17.35	17.94	18.42	17.51	18.10	18.03	18.61	19.10
	12H	16.86	17.38	17.37	17.87	18.43	17.50	18.02	18.01	18.51	19.07
12H	4H	16.52	17.23	17.00	17.71	18.18	17.49	18.21	17.97	18.68	19.16
	6H	16.77	17.36	17.28	17.87	18.35	17.51	18.10	18.03	18.61	19.10
	8H	16.84	17.36	17.35	17.85	18.41	17.51	18.03	18.02	18.52	19.09