

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: P1499160

Luminaire Tested: MAE-G-4-120-1STD-STD-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499160
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-4-120-1STD-STD-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

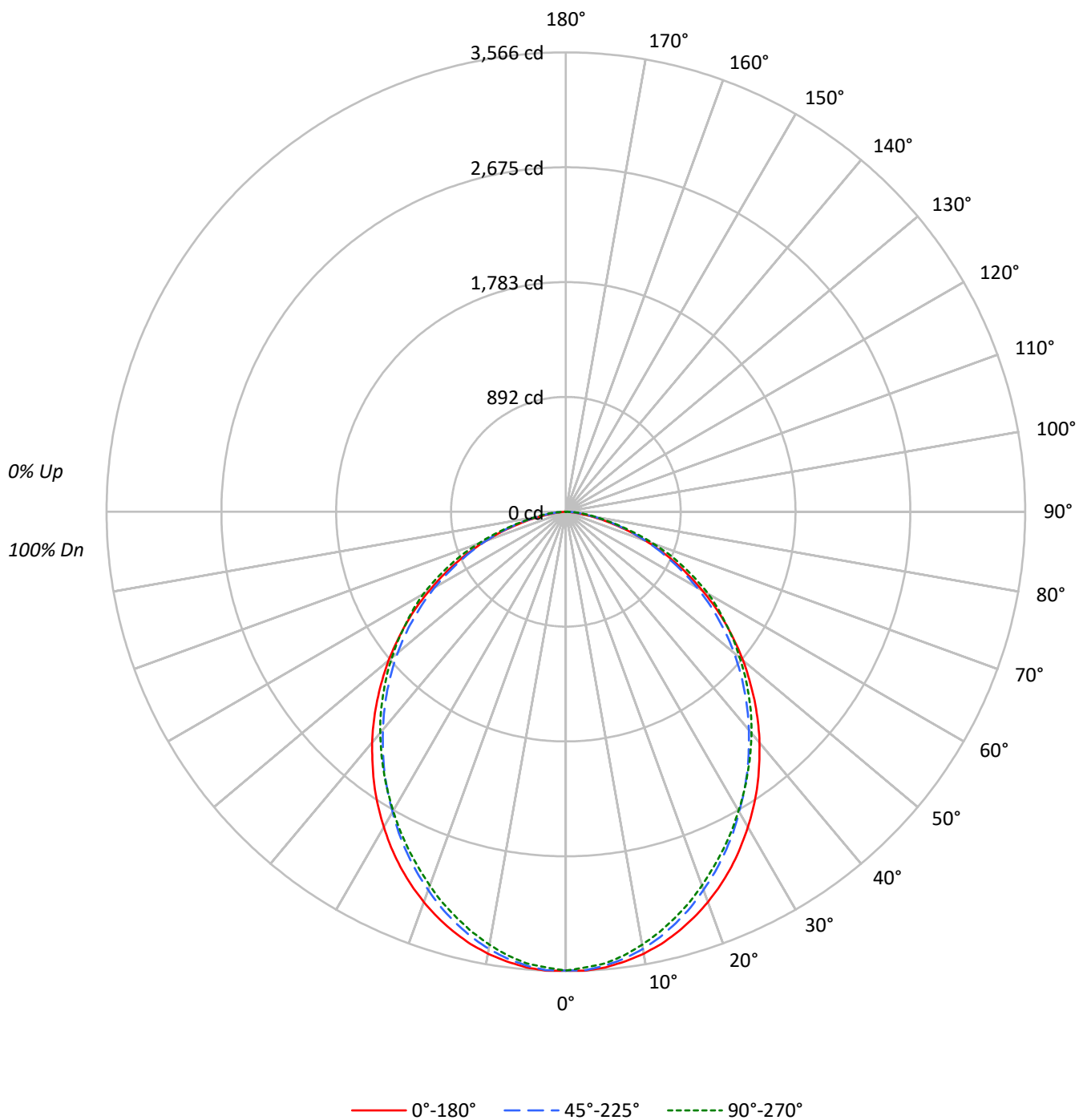
Lumens per Lamp: N/A
Luminaire Lumens: 8523.0 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 102.6
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: P1499160

CATALOG NUMBER: MAE-G-4-120-1STD-STD-35-90

Luminous Intensity Polar Plot



TEST NUMBER: P1499160

CATALOG NUMBER: MAE-G-4-120-1STD-STD-35-90

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	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	82	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	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	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	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4792	4792	4792
5°	4794	4775	4752
10°	4759	4707	4663
15°	4699	4602	4548
20°	4617	4474	4421
25°	4514	4335	4292
30°	4391	4181	4165
35°	4260	4035	4048
40°	4108	3881	3938
45°	3940	3730	3817
50°	3760	3568	3690
55°	3552	3379	3557
60°	3296	3162	3439
65°	3000	2882	3197
70°	2603	2591	2850
75°	2077	2205	2340
80°	1437	1702	1857
85°	804	1298	1689

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3940 cd/sqm

TEST NUMBER: P1499160

CATALOG NUMBER: MAE-G-4-120-1STD-STD-35-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.3	3.9
10°-20°	932.0	10.9
20°-30°	1353.8	15.9
30°-40°	1558.1	18.3
40°-50°	1542.1	18.1
50°-60°	1320.4	15.5
60°-70°	931.3	10.9
70°-80°	452.5	5.3
80°-90°	98.5	1.2
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°	2620.1	30.7
0°-40°	4178.2	49.0
0°-60°	7040.7	82.6
0°-90°	8523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8523.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3562	3562	3562	3562	3562	
5°	3549	3546	3536	3511	3519	337
15°	3374	3355	3304	3260	3265	951
25°	3041	2996	2920	2883	2891	1399
35°	2593	2532	2456	2447	2464	1620
45°	2071	2015	1960	1984	2006	1597
55°	1514	1463	1440	1483	1516	1352
65°	942	902	905	974	1004	932
75°	400	382	424	450	450	431
85°	52	64	84	102	109	74
90°	0	0	0	0	0	

TEST NUMBER: P1499160

CATALOG NUMBER: MAE-G-4-120-1STD-STD-35-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3561.6	3561.6	3561.6	3561.6	3561.6
2.5°	3565.7	3568.7	3561.6	3535.0	3539.5
5°	3549.4	3546.3	3535.7	3510.7	3518.6
7.5°	3521.0	3516.1	3497.1	3467.5	3472.6
10°	3483.4	3473.6	3445.3	3408.4	3412.7
12.5°	3434.6	3421.6	3381.7	3339.7	3344.3
15°	3373.6	3354.8	3304.0	3259.9	3264.7
17.5°	3303.6	3282.1	3220.6	3172.8	3182.9
20°	3224.3	3195.2	3124.5	3079.1	3087.9
22.5°	3136.9	3100.4	3026.2	2982.5	2989.3
25°	3040.6	2996.4	2920.2	2882.8	2891.0
27.5°	2936.9	2888.2	2809.9	2775.7	2788.3
30°	2826.3	2773.8	2690.9	2667.3	2681.0
32.5°	2712.7	2656.9	2575.1	2560.0	2573.7
35°	2593.3	2532.4	2456.4	2447.3	2464.4
37.5°	2465.6	2407.1	2331.9	2337.7	2353.9
40°	2339.1	2278.5	2209.8	2222.8	2242.2
42.5°	2207.6	2149.1	2086.4	2104.6	2127.3
45°	2070.6	2014.8	1960.1	1984.2	2005.8
47.5°	1933.0	1877.9	1833.3	1861.5	1887.2
50°	1796.5	1743.5	1704.5	1738.8	1763.0
52.5°	1653.2	1602.7	1574.7	1610.9	1642.1
55°	1514.3	1462.9	1440.4	1483.4	1516.4
57.5°	1370.7	1328.6	1309.2	1359.7	1400.8
60°	1224.9	1183.4	1175.1	1239.0	1278.0
62.5°	1082.5	1041.8	1038.1	1112.8	1140.9
65°	942.2	901.9	905.1	974.1	1004.3
67.5°	803.2	766.3	783.3	849.5	869.6
70°	661.7	628.8	658.5	714.4	724.4
72.5°	528.7	501.0	541.3	580.4	582.9
75°	399.6	382.5	424.1	450.0	450.2
77.5°	286.0	277.0	315.4	333.0	334.1
80°	185.5	189.6	219.7	233.5	239.6
82.5°	108.1	117.6	141.3	164.7	171.0
85°	52.1	63.5	84.1	102.0	109.4
87.5°	17.9	25.6	35.1	39.0	37.9
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1499160

CATALOG NUMBER: MAE-G-4-120-1STD-STD-35-90

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	16.24	17.83	16.61	18.14	18.45	16.41	17.99	16.78	18.31	18.62
	3H	17.69	19.12	18.07	19.44	19.80	18.06	19.48	18.43	19.81	20.17
	4H	18.12	19.46	18.52	19.81	20.18	18.56	19.90	18.96	20.24	20.62
	6H	18.34	19.58	18.75	19.94	20.33	18.85	20.09	19.27	20.46	20.85
	8H	18.37	19.55	18.80	19.94	20.34	18.94	20.12	19.37	20.51	20.91
	12H	18.38	19.51	18.81	19.89	20.32	19.00	20.13	19.43	20.51	20.94
4H	2H	16.76	18.10	17.16	18.44	18.82	16.90	18.23	17.29	18.58	18.96
	3H	18.39	19.51	18.80	19.91	20.31	18.75	19.86	19.16	20.26	20.66
	4H	18.91	19.91	19.34	20.32	20.76	19.36	20.36	19.79	20.78	21.22
	6H	19.21	20.08	19.66	20.52	20.98	19.76	20.63	20.21	21.07	21.53
	8H	19.26	20.08	19.72	20.52	20.99	19.88	20.70	20.34	21.14	21.61
	12H	19.28	20.02	19.77	20.49	20.96	19.98	20.71	20.46	21.19	21.66
8H	4H	19.13	19.95	19.59	20.39	20.86	19.54	20.36	20.00	20.80	21.27
	6H	19.50	20.17	19.99	20.66	21.14	20.02	20.70	20.51	21.18	21.66
	8H	19.59	20.19	20.10	20.70	21.19	20.20	20.80	20.71	21.31	21.80
	12H	19.64	20.17	20.15	20.66	21.23	20.35	20.89	20.86	21.38	21.94
12H	4H	19.14	19.87	19.62	20.35	20.82	19.54	20.27	20.02	20.75	21.22
	6H	19.52	20.12	20.03	20.63	21.12	20.02	20.63	20.54	21.14	21.63
	8H	19.65	20.18	20.15	20.67	21.24	20.25	20.78	20.75	21.27	21.83