

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: P1499364

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499364
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-STD-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

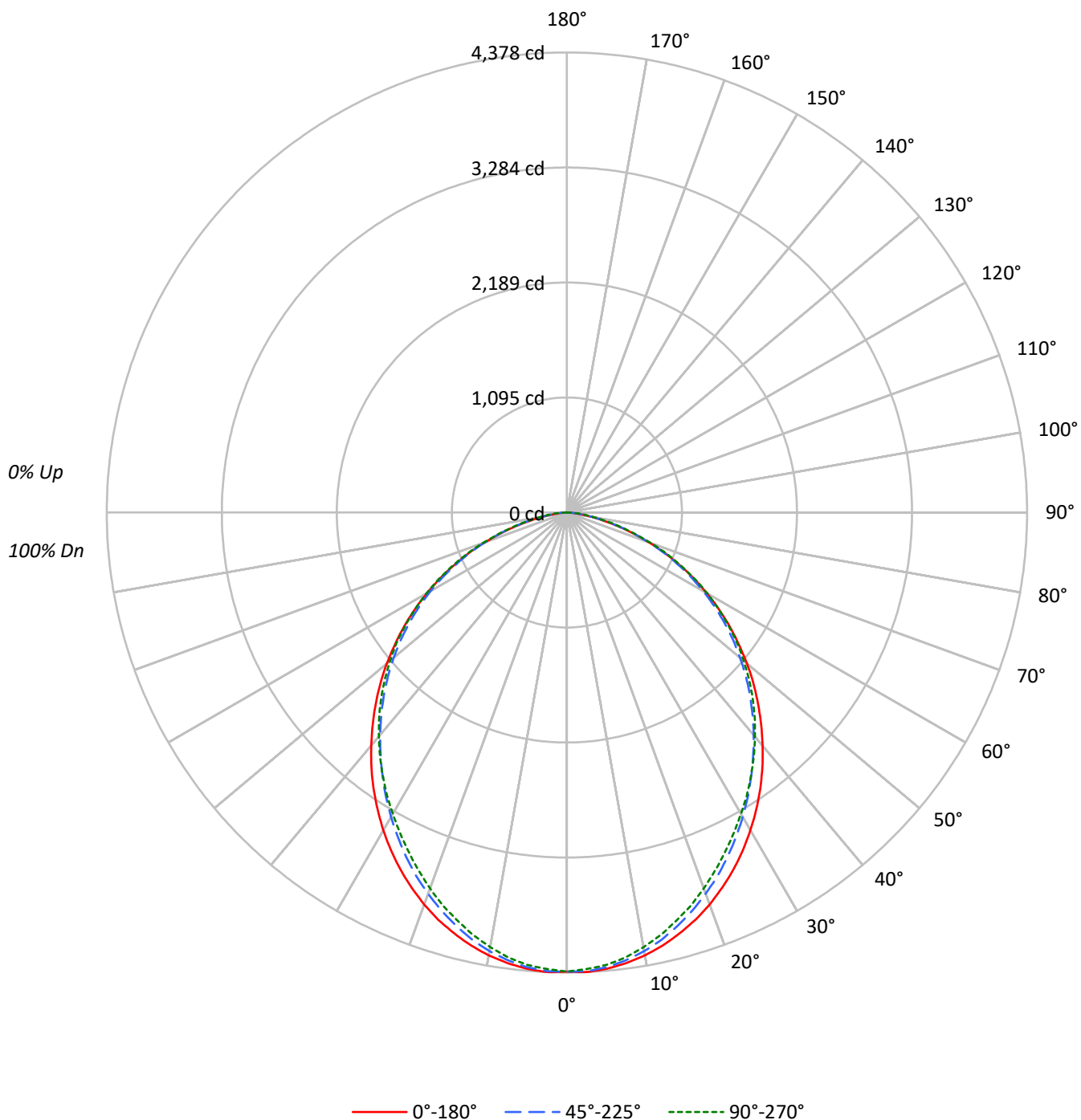
Lumens per Lamp: N/A
Luminaire Lumens: 10565.0 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 116.5
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

TEST NUMBER: P1499364

CATALOG NUMBER: MAE-G-4-120-2LO-STD-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	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	85	79	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	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	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	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5879	5879	5879
5°	5887	5866	5837
10°	5847	5791	5738
15°	5776	5673	5601
20°	5683	5528	5452
25°	5565	5369	5290
30°	5425	5198	5145
35°	5267	5021	5017
40°	5087	4854	4889
45°	4892	4685	4755
50°	4680	4503	4592
55°	4434	4290	4399
60°	4140	4029	4160
65°	3769	3692	3813
70°	3261	3254	3348
75°	2606	2688	2737
80°	1776	1946	2043
85°	928	1366	1783

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4892 cd/sqm

TEST NUMBER: P1499364

CATALOG NUMBER: MAE-G-4-120-2LO-STD-50-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.6	3.9
10°-20°	1147.2	10.9
20°-30°	1672.6	15.8
30°-40°	1934.3	18.3
40°-50°	1925.5	18.2
50°-60°	1655.3	15.7
60°-70°	1160.5	11.0
70°-80°	549.7	5.2
80°-90°	109.5	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°	3230.4	30.6
0°-40°	5164.7	48.9
0°-60°	8745.4	82.8
0°-90°	10565.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10565.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4369	4369	4369	4369	4369	
5°	4359	4345	4343	4315	4321	413
15°	4146	4116	4072	4020	4021	1169
25°	3748	3698	3616	3562	3563	1725
35°	3207	3140	3057	3040	3054	2004
45°	2571	2509	2462	2480	2499	1983
55°	1890	1839	1829	1860	1875	1688
65°	1184	1154	1160	1184	1198	1171
75°	501	490	517	524	526	539
85°	60	69	88	107	116	88
90°	0	0	0	0	0	

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CATALOG NUMBER: MAE-G-4-120-2LO-STD-50-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4369.2	4369.2	4369.2	4369.2	4369.2
2.5°	4377.6	4365.8	4369.2	4347.3	4348.0
5°	4358.8	4344.7	4343.4	4314.9	4321.4
7.5°	4325.4	4308.1	4298.8	4265.8	4271.2
10°	4279.3	4257.0	4238.4	4197.2	4199.6
12.5°	4220.0	4193.6	4163.4	4115.1	4118.7
15°	4146.3	4115.7	4072.4	4020.0	4021.2
17.5°	4065.0	4030.4	3971.6	3915.6	3921.1
20°	3969.2	3929.9	3860.7	3802.5	3807.5
22.5°	3862.6	3817.3	3744.2	3685.5	3686.5
25°	3748.4	3697.7	3616.5	3561.7	3563.3
27.5°	3624.9	3568.1	3483.7	3433.0	3437.8
30°	3491.9	3431.6	3345.4	3303.7	3311.3
32.5°	3352.1	3289.2	3204.3	3174.7	3187.6
35°	3206.9	3139.8	3057.1	3039.8	3054.3
37.5°	3055.5	2989.2	2911.5	2906.2	2921.1
40°	2896.2	2832.1	2763.8	2766.6	2783.4
42.5°	2735.1	2672.9	2614.7	2625.9	2644.0
45°	2571.0	2508.6	2462.1	2479.8	2499.0
47.5°	2407.0	2345.0	2309.4	2332.0	2349.4
50°	2235.6	2178.3	2151.3	2177.9	2193.9
52.5°	2061.2	2007.8	1991.5	2021.4	2043.1
55°	1890.3	1839.2	1829.0	1859.8	1875.3
57.5°	1713.9	1670.9	1665.9	1694.9	1711.2
60°	1538.3	1498.1	1497.4	1528.3	1545.9
62.5°	1360.7	1324.4	1329.6	1358.9	1372.7
65°	1184.0	1153.5	1159.6	1184.0	1197.8
67.5°	1008.8	981.3	993.5	1020.4	1027.4
70°	829.0	807.9	827.1	847.4	851.0
72.5°	662.4	644.0	667.1	681.7	682.2
75°	501.2	489.7	517.1	524.0	526.4
77.5°	354.6	353.4	374.0	381.4	384.8
80°	229.2	236.6	251.2	262.4	263.7
82.5°	129.8	138.6	153.5	175.3	183.9
85°	60.1	69.3	88.5	107.3	115.5
87.5°	20.2	27.1	37.4	40.6	38.6
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	17.08	18.67	17.45	18.98	19.30	17.16	18.75	17.53	19.06	19.38
	3H	18.56	19.98	18.93	20.31	20.67	18.69	20.11	19.07	20.44	20.80
	4H	18.99	20.33	19.39	20.67	21.05	19.15	20.49	19.55	20.84	21.21
	6H	19.20	20.44	19.61	20.80	21.19	19.40	20.64	19.82	21.01	21.40
	8H	19.23	20.41	19.66	20.80	21.20	19.47	20.65	19.89	21.04	21.44
	12H	19.23	20.36	19.66	20.74	21.17	19.51	20.64	19.94	21.02	21.45
4H	2H	17.62	18.96	18.02	19.31	19.69	17.69	19.03	18.09	19.38	19.75
	3H	19.28	20.39	19.69	20.79	21.19	19.41	20.52	19.82	20.92	21.32
	4H	19.79	20.80	20.23	21.21	21.65	19.96	20.97	20.40	21.38	21.82
	6H	20.09	20.96	20.54	21.40	21.86	20.31	21.18	20.76	21.62	22.08
	8H	20.14	20.95	20.60	21.39	21.86	20.40	21.22	20.86	21.66	22.13
	12H	20.15	20.88	20.63	21.36	21.83	20.47	21.20	20.95	21.68	22.15
8H	4H	19.99	20.81	20.45	21.25	21.72	20.15	20.96	20.61	21.40	21.87
	6H	20.35	21.02	20.84	21.51	21.99	20.56	21.23	21.05	21.72	22.20
	8H	20.42	21.03	20.93	21.53	22.02	20.69	21.30	21.21	21.80	22.29
	12H	20.46	21.00	20.97	21.49	22.05	20.81	21.34	21.32	21.84	22.40
12H	4H	20.00	20.73	20.48	21.20	21.67	20.15	20.88	20.63	21.35	21.82
	6H	20.35	20.96	20.86	21.47	21.95	20.56	21.16	21.07	21.67	22.16
	8H	20.47	21.00	20.97	21.49	22.05	20.73	21.27	21.24	21.76	22.32

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

7 of 7