

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: P1499069

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499069
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-4-120-1LO-STD-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

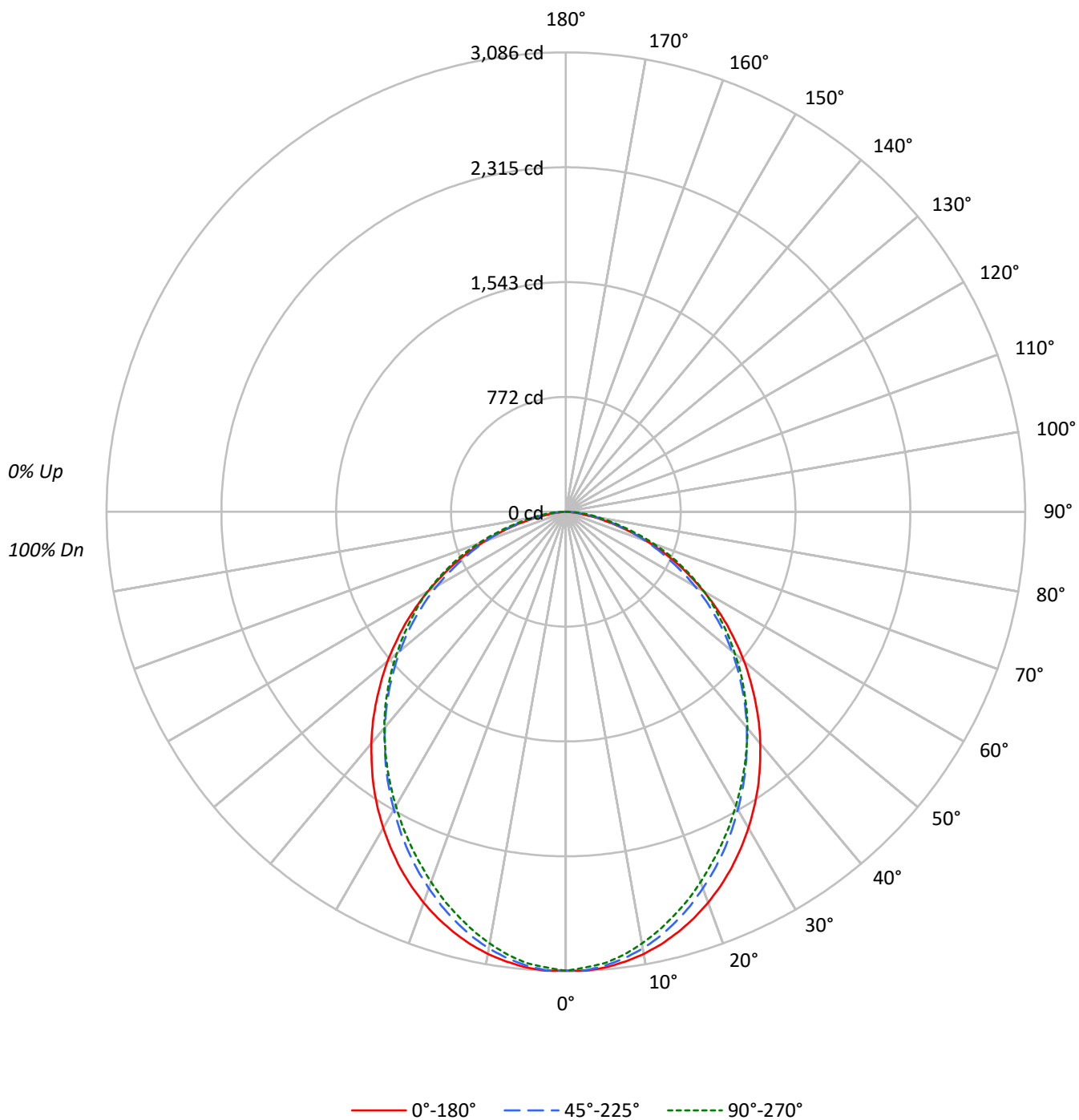
Lumens per Lamp: N/A
Luminaire Lumens: 7331.0 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1499069

CATALOG NUMBER: MAE-G-4-120-1LO-STD-40-90-WDDCPH

Luminous Intensity Polar Plot



TEST NUMBER: P1499069

CATALOG NUMBER: MAE-G-4-120-1LO-STD-40-90-WDDCPH

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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	84	73	64	58	82	71	63	57	69	62	56		66	60	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°	4148	4148	4148
5°	4150	4133	4110
10°	4121	4070	4023
15°	4070	3972	3911
20°	4001	3854	3790
25°	3914	3728	3667
30°	3810	3589	3547
35°	3699	3457	3437
40°	3570	3321	3333
45°	3427	3187	3220
50°	3274	3045	3103
55°	3096	2882	2986
60°	2878	2696	2889
65°	2624	2463	2718
70°	2281	2233	2471
75°	1826	1935	2106
80°	1269	1544	1743
85°	713	1210	1606

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3427 cd/sqm

TEST NUMBER: P1499069

CATALOG NUMBER: MAE-G-4-120-1LO-STD-40-90-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.2	3.9
10°-20°	804.2	11.0
20°-30°	1164.8	15.9
30°-40°	1336.8	18.2
40°-50°	1319.7	18.0
50°-60°	1127.9	15.4
60°-70°	799.3	10.9
70°-80°	398.4	5.4
80°-90°	90.7	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°	2258.2	30.8
0°-40°	3595.0	49.0
0°-60°	6042.6	82.4
0°-90°	7331.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7331.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3083	3083	3083	3083	3083	
5°	3073	3070	3060	3036	3043	291
15°	2922	2903	2852	2805	2808	823
25°	2636	2592	2511	2467	2470	1213
35°	2252	2190	2105	2083	2092	1407
45°	1801	1741	1675	1680	1692	1389
55°	1320	1265	1229	1251	1273	1178
65°	824	781	774	829	854	815
75°	351	332	372	401	405	379
85°	46	57	78	96	104	65
90°	0	0	0	0	0	

TEST NUMBER: P1499069

CATALOG NUMBER: MAE-G-4-120-1LO-STD-40-90-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3082.9	3082.9	3082.9	3082.9	3082.9
2.5°	3086.4	3089.3	3082.9	3058.6	3063.6
5°	3072.6	3070.2	3059.9	3035.6	3042.8
7.5°	3048.3	3043.5	3025.0	2995.8	3000.3
10°	3016.1	3006.7	2978.7	2941.7	2944.9
12.5°	2974.2	2961.0	2921.1	2878.3	2881.2
15°	2921.9	2903.2	2851.7	2805.2	2807.6
17.5°	2862.0	2839.6	2776.7	2726.1	2732.7
20°	2794.2	2764.5	2691.5	2642.1	2646.8
22.5°	2719.0	2682.1	2604.7	2555.8	2558.2
25°	2636.4	2591.9	2511.0	2466.6	2469.8
27.5°	2547.5	2498.2	2413.7	2371.9	2378.2
30°	2452.6	2399.0	2310.0	2276.4	2283.3
32.5°	2354.7	2297.4	2208.9	2181.9	2188.7
35°	2251.7	2189.5	2104.9	2083.2	2092.4
37.5°	2141.7	2081.3	1997.0	1987.2	1995.3
40°	2032.5	1969.9	1890.9	1886.9	1897.7
42.5°	1918.8	1857.8	1784.1	1784.5	1797.5
45°	1800.9	1741.4	1674.8	1680.5	1692.4
47.5°	1681.9	1623.5	1565.8	1575.0	1590.2
50°	1563.9	1507.1	1454.8	1469.2	1482.6
52.5°	1439.4	1385.5	1343.4	1359.7	1379.2
55°	1319.6	1264.9	1228.6	1251.1	1272.8
57.5°	1195.3	1148.5	1116.3	1146.6	1175.2
60°	1069.5	1023.8	1001.8	1045.0	1073.7
62.5°	945.8	901.3	886.0	940.8	963.7
65°	824.1	780.7	773.6	829.2	853.7
67.5°	702.6	663.6	670.9	727.7	745.1
70°	579.7	544.6	567.5	617.5	628.2
72.5°	463.7	434.6	470.0	508.5	513.5
75°	351.2	332.5	372.3	401.2	405.1
77.5°	251.7	242.0	280.8	303.2	308.0
80°	163.8	167.3	199.3	218.0	224.9
82.5°	95.8	105.1	130.7	154.4	161.6
85°	46.2	57.3	78.4	96.3	104.0
87.5°	15.8	23.2	33.0	36.7	35.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1499069

CATALOG NUMBER: MAE-G-4-120-1LO-STD-40-90-WDDCPH

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	15.76	17.35	16.13	17.66	17.98	15.74	17.33	16.11	17.64	17.96
	3H	17.23	18.65	17.60	18.98	19.34	17.45	18.87	17.82	19.20	19.56
	4H	17.66	19.00	18.06	19.35	19.73	18.00	19.34	18.40	19.69	20.06
	6H	17.89	19.13	18.30	19.49	19.89	18.35	19.59	18.76	19.96	20.35
	8H	17.93	19.11	18.35	19.50	19.90	18.46	19.64	18.89	20.03	20.43
	12H	17.93	19.06	18.36	19.45	19.87	18.54	19.67	18.97	20.05	20.48
4H	2H	16.26	17.60	16.66	17.95	18.33	16.24	17.58	16.64	17.93	18.31
	3H	17.91	19.03	18.32	19.43	19.83	18.16	19.27	18.57	19.67	20.07
	4H	18.44	19.44	18.87	19.86	20.29	18.83	19.83	19.26	20.25	20.69
	6H	18.75	19.62	19.20	20.06	20.52	19.29	20.17	19.75	20.61	21.07
	8H	18.80	19.62	19.27	20.07	20.53	19.44	20.26	19.90	20.70	21.17
	12H	18.83	19.56	19.31	20.04	20.51	19.56	20.30	20.04	20.77	21.24
8H	4H	18.67	19.49	19.13	19.93	20.40	19.02	19.84	19.48	20.28	20.75
	6H	19.05	19.73	19.54	20.22	20.69	19.58	20.26	20.07	20.74	21.22
	8H	19.14	19.75	19.66	20.26	20.75	19.79	20.40	20.30	20.90	21.39
	12H	19.20	19.74	19.71	20.23	20.79	19.98	20.51	20.48	21.00	21.57
12H	4H	18.69	19.42	19.17	19.90	20.37	19.02	19.76	19.51	20.23	20.70
	6H	19.08	19.69	19.59	20.19	20.68	19.59	20.20	20.10	20.70	21.19
	8H	19.21	19.75	19.72	20.24	20.81	19.85	20.38	20.35	20.87	21.44