

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: P1499189

Luminaire Tested: MAE-G-4-120-2HI-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499189
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-4-120-2HI-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

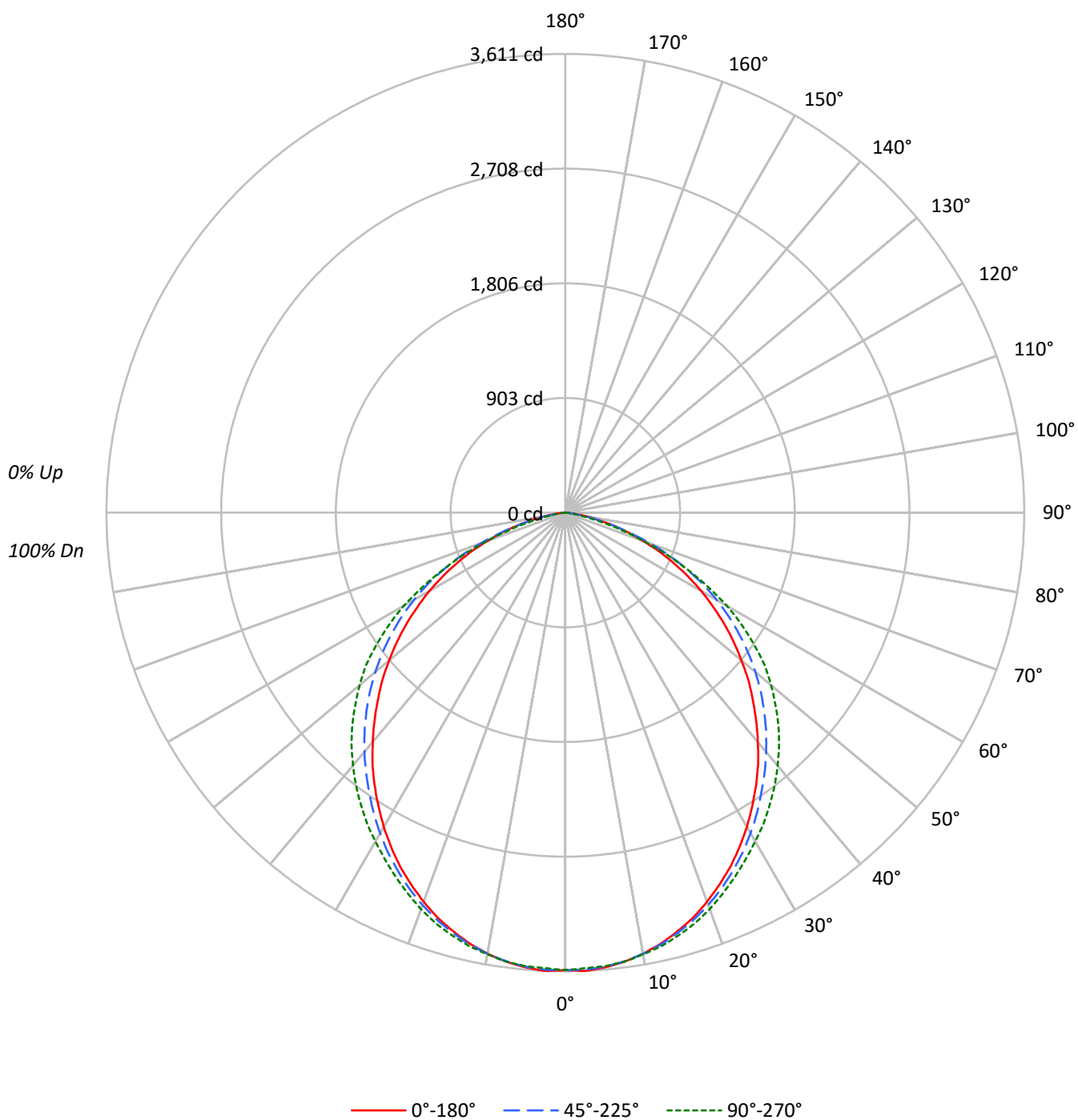
Lumens per Lamp: N/A
Luminaire Lumens: 9090.0 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88.6
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: P1499189

CATALOG NUMBER: MAE-G-4-120-2HI-40-90-WDDCPH

Luminous Intensity Polar Plot



TEST NUMBER: P1499189

CATALOG NUMBER: MAE-G-4-120-2HI-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	110	105	102	98	107	103	100	97	99	96	93		95	93	91		92
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72
4	84	73	64	58	82	71	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		54	48	43		53
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4845	4845	4845
5°	4854	4846	4841
10°	4816	4816	4823
15°	4752	4769	4798
20°	4668	4706	4755
25°	4564	4624	4693
30°	4438	4529	4643
35°	4298	4419	4607
40°	4139	4319	4564
45°	3970	4211	4514
50°	3786	4085	4423
55°	3577	3921	4257
60°	3324	3702	3952
65°	2998	3364	3383
70°	2559	2799	2616
75°	2009	2027	1634
80°	1306	1043	626
85°	605	397	321

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4514 cd/sqm

TEST NUMBER: P1499189

CATALOG NUMBER: MAE-G-4-120-2HI-40-90-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.1	3.7
10°-20°	964.6	10.6
20°-30°	1433.0	15.8
30°-40°	1687.9	18.6
40°-50°	1710.0	18.8
50°-60°	1488.4	16.4
60°-70°	1014.2	11.2
70°-80°	405.4	4.5
80°-90°	46.4	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°	2737.7	30.1
0°-40°	4425.6	48.7
0°-60°	7624.0	83.9
0°-90°	9090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9090.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3601	3601	3601	3601	3601	
5°	3594	3573	3588	3583	3584	341
15°	3412	3397	3424	3436	3444	962
25°	3074	3075	3114	3140	3161	1414
35°	2617	2629	2690	2761	2805	1636
45°	2086	2112	2213	2317	2372	1610
55°	1525	1558	1672	1777	1815	1362
65°	942	986	1056	1058	1063	933
75°	386	410	390	335	314	416
85°	39	35	26	23	21	62
90°	0	0	0	0	0	



TEST NUMBER: P1499189

CATALOG NUMBER: MAE-G-4-120-2HI-40-90-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3601.0	3601.0	3601.0	3601.0	3601.0
2.5°	3611.0	3587.8	3601.0	3598.6	3588.8
5°	3593.7	3572.9	3587.8	3582.9	3584.0
7.5°	3565.6	3546.1	3562.1	3560.7	3564.5
10°	3525.3	3505.9	3525.3	3526.4	3530.2
12.5°	3475.1	3458.0	3481.3	3486.1	3494.8
15°	3411.5	3396.9	3423.7	3436.1	3444.5
17.5°	3343.2	3333.4	3360.2	3376.1	3389.7
20°	3259.9	3255.1	3287.0	3302.6	3321.0
22.5°	3169.4	3167.0	3205.1	3224.5	3242.9
25°	3074.0	3075.3	3114.5	3140.2	3161.0
27.5°	2968.8	2971.3	3019.1	3049.7	3075.3
30°	2856.4	2862.6	2915.1	2956.7	2988.6
32.5°	2737.8	2748.9	2805.1	2862.6	2902.9
35°	2616.7	2629.1	2690.2	2761.0	2805.1
37.5°	2492.1	2505.6	2576.4	2659.7	2706.2
40°	2356.4	2377.0	2459.1	2550.8	2598.3
42.5°	2222.9	2246.2	2338.1	2438.3	2489.7
45°	2086.2	2111.8	2213.2	2317.2	2372.1
47.5°	1954.0	1975.9	2084.8	2193.7	2242.7
50°	1808.6	1837.8	1951.6	2060.5	2112.9
52.5°	1669.2	1697.3	1813.5	1924.5	1978.6
55°	1524.8	1557.8	1671.6	1776.7	1814.6
57.5°	1379.4	1417.3	1527.3	1614.0	1647.0
60°	1235.1	1272.9	1375.6	1444.0	1468.6
62.5°	1089.4	1128.6	1219.2	1260.8	1265.6
65°	941.6	985.7	1056.5	1057.8	1062.7
67.5°	801.1	837.5	888.9	874.3	867.0
70°	650.5	690.8	711.6	682.4	665.1
72.5°	517.3	546.5	543.0	500.0	479.4
75°	386.5	409.7	390.0	335.1	314.3
77.5°	267.8	287.3	248.1	196.8	176.2
80°	168.6	177.3	134.6	95.4	80.8
82.5°	90.5	89.2	57.6	47.6	44.1
85°	39.2	35.4	25.7	23.2	20.8
87.5°	13.5	12.2	9.7	8.6	7.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1499189

CATALOG NUMBER: MAE-G-4-120-2HI-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	16.40	17.98	16.76	18.29	18.61	17.36	18.94	17.72	19.26	19.57
	3H	17.82	19.24	18.20	19.57	19.93	18.55	19.97	18.93	20.30	20.66
	4H	18.21	19.55	18.61	19.89	20.27	18.76	20.10	19.16	20.44	20.82
	6H	18.39	19.62	18.80	19.98	20.37	18.78	20.01	19.19	20.38	20.77
	8H	18.40	19.57	18.83	19.96	20.36	18.76	19.93	19.18	20.32	20.72
	12H	18.39	19.51	18.82	19.89	20.32	18.73	19.86	19.16	20.24	20.67
4H	2H	17.06	18.39	17.46	18.74	19.12	17.83	19.17	18.23	19.51	19.89
	3H	18.64	19.74	19.05	20.14	20.54	19.18	20.29	19.59	20.69	21.09
	4H	19.11	20.10	19.54	20.52	20.96	19.45	20.44	19.88	20.86	21.30
	6H	19.35	20.21	19.81	20.66	21.11	19.50	20.36	19.96	20.81	21.26
	8H	19.38	20.18	19.84	20.62	21.09	19.48	20.28	19.94	20.72	21.19
	12H	19.37	20.09	19.86	20.57	21.04	19.46	20.17	19.94	20.65	21.12
8H	4H	19.25	20.05	19.71	20.50	20.96	19.57	20.37	20.03	20.81	21.28
	6H	19.53	20.19	20.02	20.68	21.15	19.63	20.29	20.12	20.78	21.25
	8H	19.56	20.15	20.08	20.66	21.15	19.60	20.19	20.11	20.70	21.19
	12H	19.58	20.10	20.09	20.59	21.15	19.59	20.11	20.10	20.60	21.16
12H	4H	19.23	19.95	19.71	20.43	20.90	19.55	20.27	20.04	20.75	21.22
	6H	19.49	20.09	20.01	20.60	21.08	19.60	20.19	20.11	20.70	21.19
	8H	19.56	20.08	20.07	20.57	21.13	19.60	20.12	20.11	20.61	21.18