

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: P1499309

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499309
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-HI-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

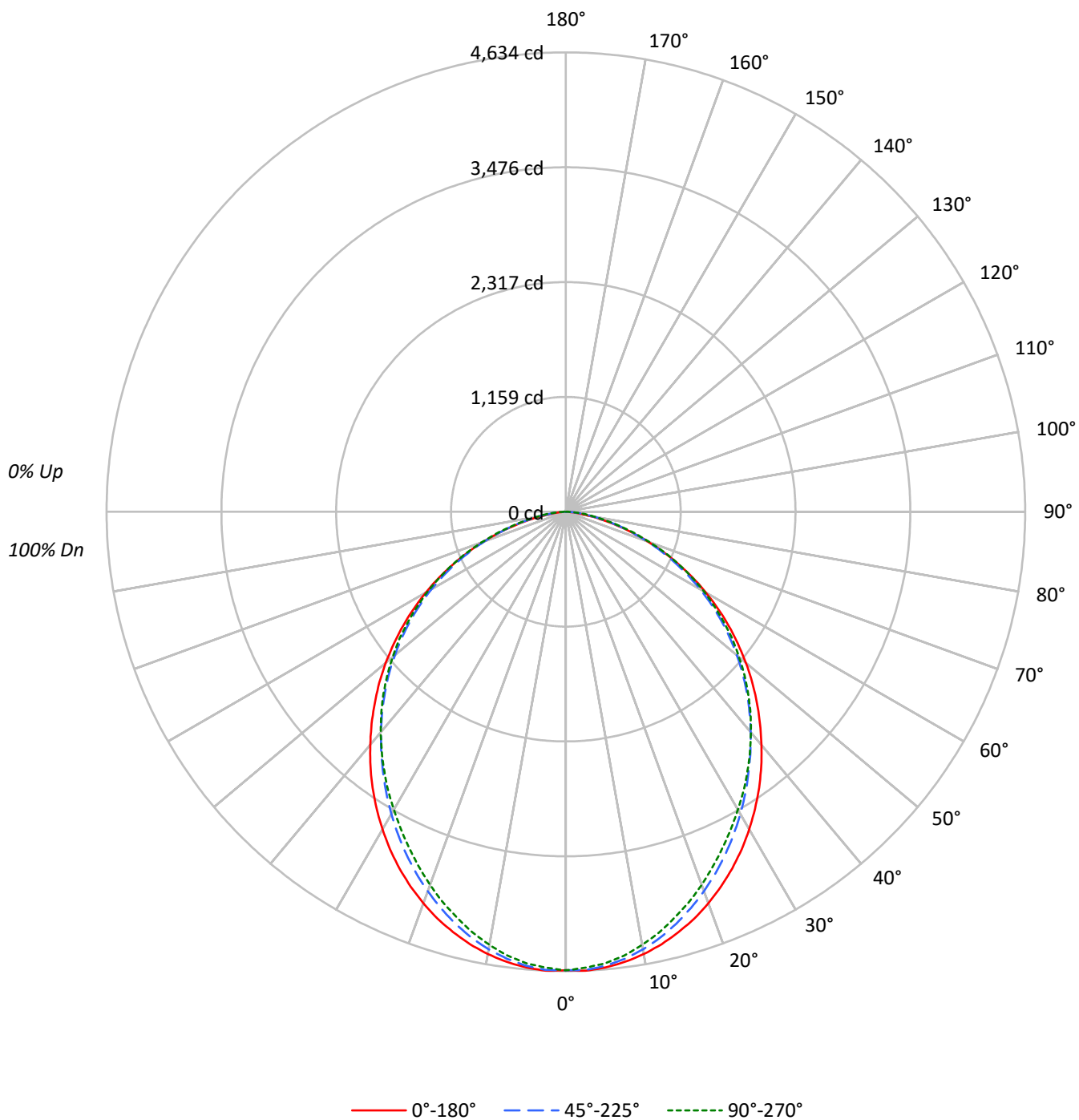
Lumens per Lamp: N/A
Luminaire Lumens: 11132.0 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.9
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: P1499309

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

Luminous Intensity Polar Plot



TEST NUMBER: P1499309

CATALOG NUMBER: MAE-G-4-120-2LO-HI-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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	74	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	63	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6224	6224	6224
5°	6232	6209	6175
10°	6190	6124	6061
15°	6116	5992	5905
20°	6019	5831	5735
25°	5894	5657	5554
30°	5748	5468	5391
35°	5582	5277	5246
40°	5393	5095	5102
45°	5188	4912	4952
50°	4964	4716	4773
55°	4705	4489	4570
60°	4394	4214	4332
65°	4005	3864	4004
70°	3470	3428	3564
75°	2777	2872	2983
80°	1902	2138	2308
85°	1003	1545	2046

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5188 cd/sqm

TEST NUMBER: P1499309

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.5	3.9
10°-20°	1211.9	10.9
20°-30°	1763.2	15.8
30°-40°	2034.8	18.3
40°-50°	2021.5	18.2
50°-60°	1735.3	15.6
60°-70°	1220.6	11.0
70°-80°	588.5	5.3
80°-90°	121.9	1.1
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°	3409.5	30.6
0°-40°	5444.3	48.9
0°-60°	9201.1	82.7
0°-90°	11132.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11132.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4626	4626	4626	4626	4626	
5°	4614	4601	4597	4564	4572	438
15°	4390	4357	4302	4239	4239	1238
25°	3970	3911	3810	3742	3741	1828
35°	3399	3318	3213	3183	3194	2124
45°	2726	2650	2581	2588	2602	2103
55°	2006	1941	1914	1935	1948	1791
65°	1258	1216	1214	1242	1258	1244
75°	534	518	552	568	574	575
85°	65	76	100	123	132	95
90°	0	0	0	0	0	

TEST NUMBER: P1499309

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4625.6	4625.6	4625.6	4625.6	4625.6
2.5°	4634.0	4623.3	4625.6	4600.1	4602.3
5°	4614.3	4600.7	4597.1	4564.4	4571.8
7.5°	4579.0	4561.4	4548.4	4509.8	4515.6
10°	4530.5	4507.1	4482.6	4434.1	4436.4
12.5°	4467.9	4439.3	4400.8	4343.5	4346.5
15°	4390.4	4356.6	4302.0	4238.9	4239.2
17.5°	4304.4	4265.2	4192.7	4124.7	4129.3
20°	4203.5	4158.2	4072.6	4002.2	4005.6
22.5°	4091.1	4038.4	3947.3	3876.0	3874.6
25°	3970.4	3910.8	3810.2	3742.4	3741.4
27.5°	3840.1	3773.2	3667.6	3604.0	3606.1
30°	3699.8	3628.2	3519.8	3465.2	3469.7
32.5°	3552.2	3476.9	3369.6	3327.0	3336.6
35°	3398.7	3318.2	3212.9	3182.8	3193.8
37.5°	3238.4	3158.8	3057.8	3040.2	3051.3
40°	3070.2	2992.4	2900.9	2891.6	2904.7
42.5°	2899.9	2823.8	2742.7	2742.3	2756.3
45°	2726.4	2649.7	2581.2	2587.5	2602.5
47.5°	2552.3	2476.6	2419.8	2431.3	2445.0
50°	2371.5	2300.2	2252.9	2269.0	2280.4
52.5°	2186.2	2119.8	2084.5	2104.3	2122.3
55°	2005.7	1941.3	1913.7	1935.3	1948.3
57.5°	1819.1	1763.4	1742.3	1764.3	1778.9
60°	1633.0	1580.7	1565.8	1592.5	1609.8
62.5°	1444.9	1397.0	1390.5	1419.2	1434.7
65°	1258.1	1216.4	1213.8	1242.1	1257.7
67.5°	1072.2	1034.8	1042.2	1075.7	1084.8
70°	882.1	852.0	871.4	899.3	905.9
72.5°	705.1	679.6	707.2	730.2	733.6
75°	534.2	517.6	552.5	568.0	573.8
77.5°	378.8	374.7	404.3	420.0	426.9
80°	245.5	252.9	275.9	294.5	297.9
82.5°	139.6	150.2	172.0	199.0	209.4
85°	65.0	76.3	100.1	122.7	132.5
87.5°	21.8	30.1	42.5	46.4	44.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1499309

CATALOG NUMBER: MAE-G-4-120-2LO-HI-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	17.28	18.87	17.65	19.18	19.50	17.26	18.84	17.63	19.16	19.47
	3H	18.76	20.19	19.14	20.51	20.87	18.83	20.25	19.21	20.58	20.94
	4H	19.20	20.54	19.60	20.88	21.26	19.32	20.66	19.72	21.01	21.39
	6H	19.41	20.65	19.83	21.02	21.41	19.61	20.85	20.02	21.22	21.61
	8H	19.45	20.63	19.87	21.02	21.42	19.69	20.87	20.12	21.26	21.66
	12H	19.45	20.58	19.88	20.96	21.39	19.75	20.88	20.17	21.26	21.69
4H	2H	17.81	19.15	18.21	19.50	19.88	17.79	19.13	18.19	19.48	19.86
	3H	19.47	20.59	19.88	20.99	21.39	19.56	20.67	19.97	21.07	21.47
	4H	19.99	21.00	20.43	21.41	21.85	20.15	21.16	20.58	21.57	22.01
	6H	20.29	21.17	20.75	21.61	22.07	20.54	21.41	20.99	21.85	22.31
	8H	20.34	21.16	20.81	21.60	22.07	20.65	21.47	21.11	21.91	22.37
	12H	20.36	21.09	20.84	21.57	22.04	20.73	21.47	21.22	21.94	22.41
8H	4H	20.20	21.02	20.66	21.46	21.92	20.34	21.16	20.80	21.60	22.07
	6H	20.56	21.24	21.06	21.73	22.20	20.80	21.48	21.30	21.97	22.45
	8H	20.64	21.25	21.15	21.76	22.24	20.96	21.57	21.47	22.08	22.56
	12H	20.69	21.22	21.19	21.71	22.27	21.10	21.64	21.61	22.13	22.69
12H	4H	20.21	20.94	20.69	21.41	21.88	20.34	21.07	20.82	21.55	22.02
	6H	20.57	21.18	21.09	21.69	22.18	20.81	21.41	21.32	21.92	22.41
	8H	20.69	21.23	21.20	21.72	22.28	21.01	21.54	21.52	22.03	22.60