

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: P1499234

Luminaire Tested: MAE-G-4-120-2HI-LO-35-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499234
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-LO-35-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

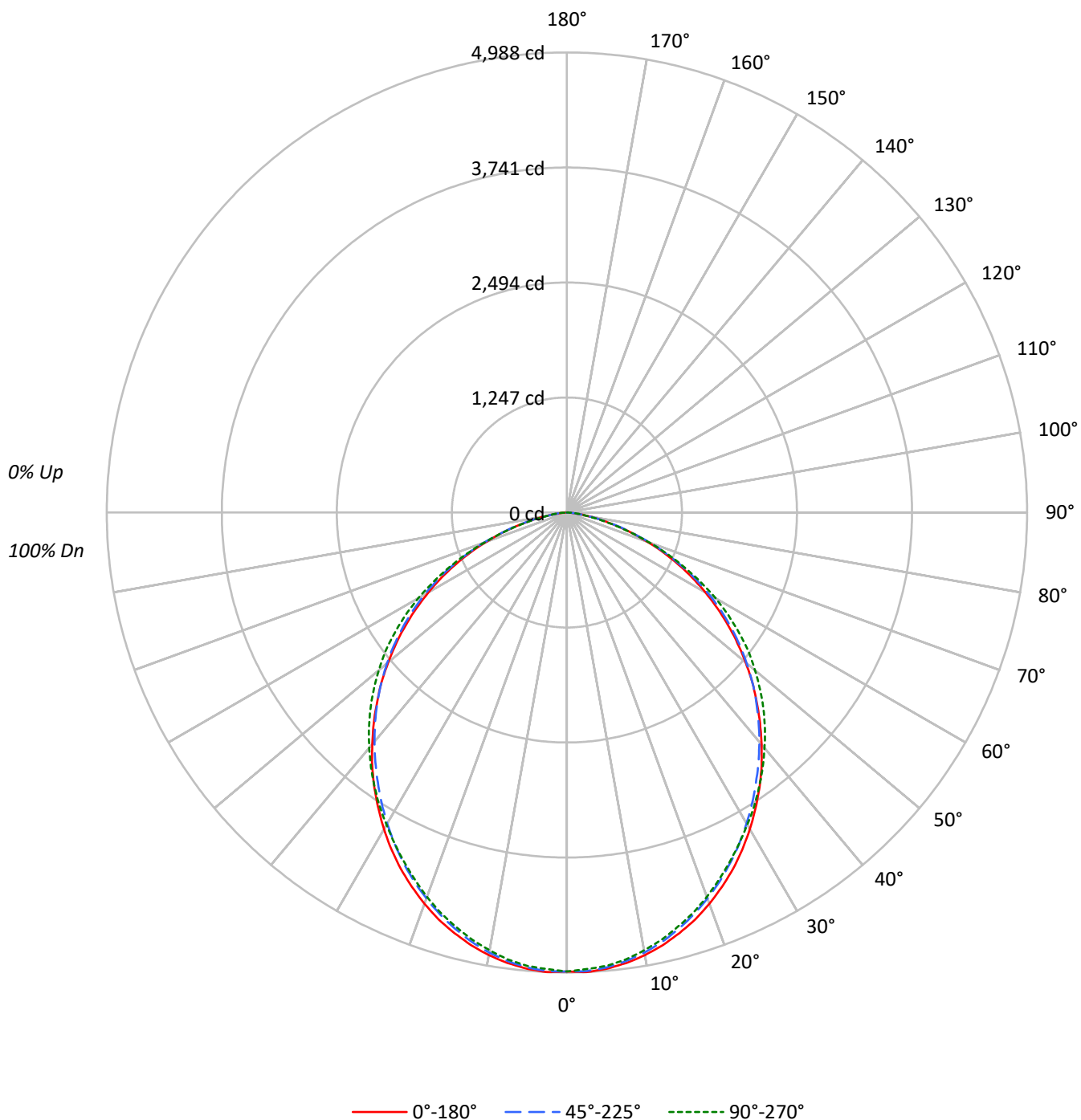
Lumens per Lamp: N/A
Luminaire Lumens: 12238.0 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.8
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: P1499234

CATALOG NUMBER: MAE-G-4-120-2HI-LO-35-WDDCPH

Luminous Intensity Polar Plot



TEST NUMBER: P1499234

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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	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	98	107	103	99	96	99	96	93	95	93	90	91	89	88	88	88	86
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	53
5	78	65	56	50	76	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	34	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	54	41	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°	6696	6696	6696
5°	6706	6688	6664
10°	6658	6619	6586
15°	6574	6511	6477
20°	6464	6377	6349
25°	6326	6222	6203
30°	6161	6051	6075
35°	5977	5869	5967
40°	5765	5699	5854
45°	5539	5523	5734
50°	5292	5329	5571
55°	5009	5092	5347
60°	4668	4793	5018
65°	4235	4376	4472
70°	3646	3769	3737
75°	2894	2962	2785
80°	1939	1917	1762
85°	971	1166	1417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5734 cd/sqm

TEST NUMBER: P1499234

CATALOG NUMBER: MAE-G-4-120-2HI-LO-35-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.6	3.8
10°-20°	1316.9	10.8
20°-30°	1934.2	15.8
30°-40°	2253.2	18.4
40°-50°	2258.9	18.5
50°-60°	1951.7	15.9
60°-70°	1352.6	11.1
70°-80°	600.7	4.9
80°-90°	101.3	0.8
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°	3719.7	30.4
0°-40°	5972.9	48.8
0°-60°	10183.5	83.2
0°-90°	12238.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12238.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4977	4977	4977	4977	4977	
5°	4965	4944	4952	4929	4934	471
15°	4720	4690	4674	4644	4650	1330
25°	4261	4227	4191	4166	4178	1961
35°	3639	3598	3573	3599	3632	2274
45°	2911	2881	2903	2971	3013	2246
55°	2135	2117	2171	2249	2280	1907
65°	1330	1333	1375	1392	1405	1317
75°	557	561	570	545	536	599
85°	63	67	76	88	92	95
90°	0	0	0	0	0	

TEST NUMBER: P1499234

CATALOG NUMBER: MAE-G-4-120-2HI-LO-35-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4976.6	4976.6	4976.6	4976.6	4976.6
2.5°	4987.7	4967.2	4976.6	4959.9	4955.2
5°	4965.4	4944.4	4951.5	4929.0	4934.1
7.5°	4927.1	4904.5	4906.6	4882.8	4888.6
10°	4873.3	4847.4	4844.8	4816.5	4820.2
12.5°	4805.0	4777.5	4768.9	4737.7	4744.8
15°	4719.7	4690.5	4674.4	4644.5	4649.9
17.5°	4626.3	4596.9	4570.1	4539.4	4550.6
20°	4514.8	4484.8	4453.5	4421.2	4434.5
22.5°	4392.0	4359.1	4328.3	4297.8	4308.3
25°	4261.4	4226.6	4190.8	4166.2	4178.4
27.5°	4118.8	4080.5	4047.0	4027.8	4044.9
30°	3965.8	3927.0	3894.8	3887.8	3910.1
32.5°	3804.7	3766.7	3737.4	3747.4	3778.0
35°	3638.7	3598.4	3573.2	3598.9	3632.5
37.5°	3466.3	3427.2	3410.7	3451.4	3486.7
40°	3282.4	3248.7	3244.8	3295.7	3332.9
42.5°	3098.6	3067.6	3075.8	3137.4	3177.4
45°	2910.9	2881.0	2902.7	2970.6	3013.3
47.5°	2725.7	2694.0	2727.3	2801.3	2839.6
50°	2528.3	2503.8	2545.7	2622.5	2661.6
52.5°	2331.8	2309.7	2360.3	2440.4	2484.6
55°	2135.3	2117.3	2170.9	2248.7	2279.6
57.5°	1934.4	1924.6	1979.9	2046.5	2075.4
60°	1734.7	1726.8	1781.1	1839.3	1864.7
62.5°	1532.8	1528.3	1580.3	1623.0	1635.2
65°	1330.3	1332.6	1374.6	1392.3	1404.7
67.5°	1132.8	1133.0	1169.0	1180.0	1181.0
70°	926.8	933.5	958.0	956.6	949.9
72.5°	739.1	741.9	756.2	743.4	732.8
75°	556.6	561.0	569.7	545.2	535.8
77.5°	390.9	400.4	393.9	371.6	363.0
80°	250.2	260.1	247.4	234.3	227.4
82.5°	139.1	144.4	138.1	148.0	152.0
85°	62.9	67.3	75.5	87.5	91.8
87.5°	21.3	25.4	31.3	33.0	30.9
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	17.53	19.11	17.89	19.43	19.74	17.97	19.55	18.33	19.87	20.18
	3H	18.98	20.41	19.36	20.73	21.09	19.35	20.77	19.73	21.10	21.46
	4H	19.40	20.73	19.80	21.08	21.46	19.70	21.04	20.10	21.39	21.76
	6H	19.60	20.83	20.01	21.20	21.59	19.84	21.08	20.26	21.45	21.84
	8H	19.62	20.80	20.04	21.19	21.59	19.86	21.04	20.29	21.43	21.83
	12H	19.62	20.74	20.05	21.12	21.55	19.87	21.00	20.30	21.38	21.81
4H	2H	18.12	19.45	18.52	19.80	20.18	18.47	19.81	18.87	20.16	20.53
	3H	19.74	20.85	20.15	21.25	21.65	20.03	21.14	20.44	21.54	21.94
	4H	20.24	21.24	20.67	21.65	22.09	20.47	21.46	20.90	21.88	22.32
	6H	20.51	21.38	20.97	21.82	22.28	20.67	21.54	21.13	21.98	22.44
	8H	20.55	21.36	21.01	21.80	22.27	20.71	21.52	21.17	21.96	22.43
	12H	20.56	21.28	21.04	21.76	22.23	20.73	21.46	21.21	21.93	22.40
8H	4H	20.41	21.22	20.88	21.67	22.13	20.62	21.43	21.08	21.87	22.34
	6H	20.74	21.41	21.23	21.90	22.37	20.87	21.54	21.37	22.03	22.50
	8H	20.80	21.40	21.31	21.90	22.39	20.93	21.53	21.44	22.03	22.52
	12H	20.83	21.35	21.34	21.85	22.41	20.98	21.51	21.49	22.00	22.56
12H	4H	20.41	21.13	20.89	21.61	22.08	20.61	21.34	21.10	21.82	22.29
	6H	20.73	21.33	21.24	21.83	22.32	20.86	21.46	21.37	21.97	22.46
	8H	20.82	21.35	21.33	21.84	22.40	20.95	21.48	21.46	21.97	22.53