

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: P1498691

Luminaire Tested: MAE-G-2-120-3HI-STD-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3HI-STD-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

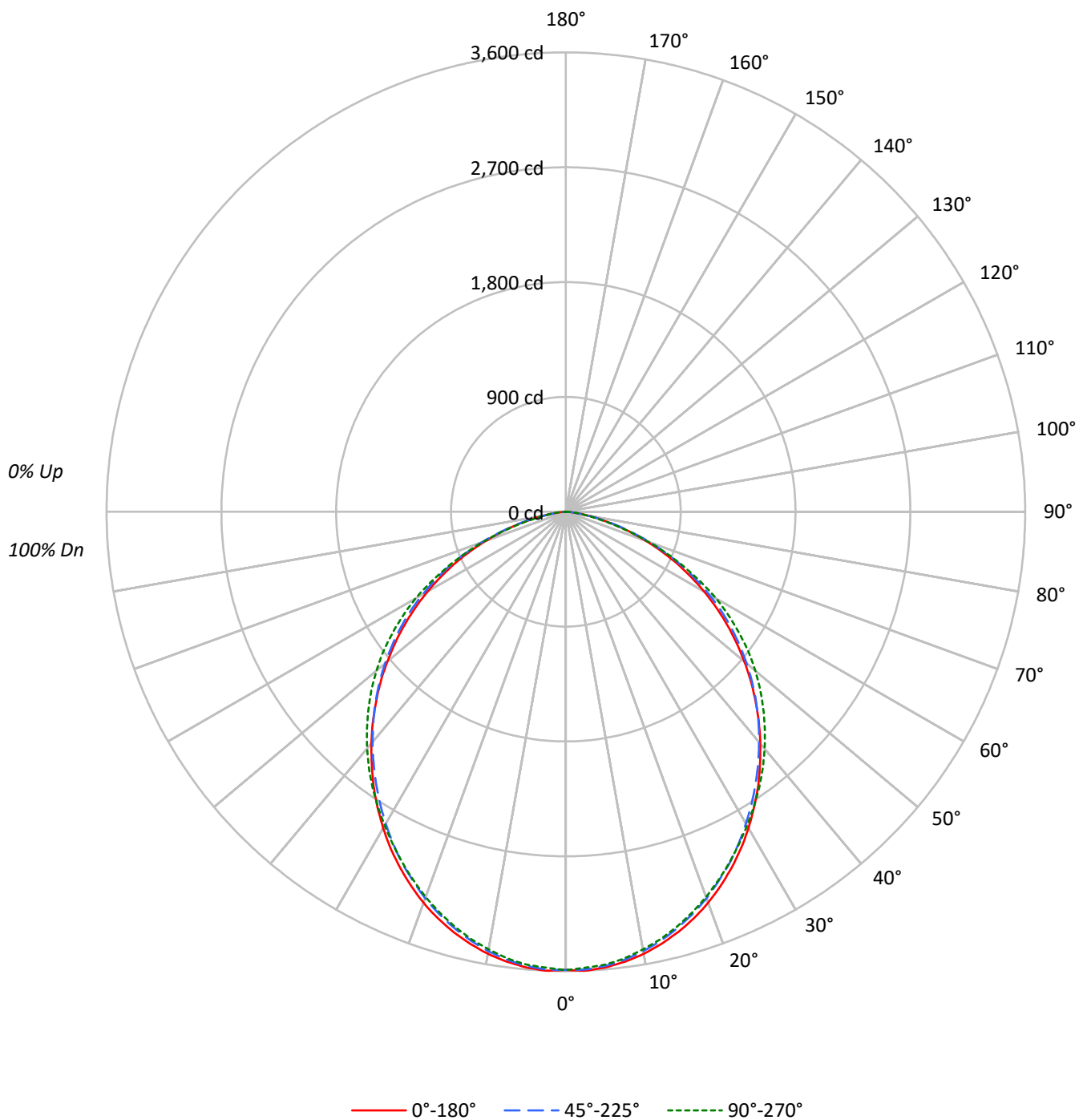
Lumens per Lamp: N/A
Luminaire Lumens: 8870.0 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 102.6
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: P1498691

CATALOG NUMBER: MAE-G-2-120-3HI-STD-50-90-WDDCPH

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	93	90		91
2	100	92	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		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	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	44	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	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9662	9662	9662
5°	9680	9651	9622
10°	9613	9556	9518
15°	9495	9409	9374
20°	9339	9230	9199
25°	9133	9015	9004
30°	8897	8771	8824
35°	8630	8521	8673
40°	8328	8277	8511
45°	8001	8026	8329
50°	7644	7741	8113
55°	7241	7408	7783
60°	6741	6978	7327
65°	6120	6388	6514
70°	5264	5524	5436
75°	4178	4339	3973
80°	2800	2768	2476
85°	1426	1670	1985

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8329 cd/sqm

TEST NUMBER: P1498691

CATALOG NUMBER: MAE-G-2-120-3HI-STD-50-90-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.2	3.8
10°-20°	951.6	10.7
20°-30°	1399.8	15.8
30°-40°	1632.3	18.4
40°-50°	1638.5	18.5
50°-60°	1417.5	16.0
60°-70°	984.1	11.1
70°-80°	435.6	4.9
80°-90°	72.4	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°	2689.6	30.3
0°-40°	4321.9	48.7
0°-60°	7377.9	83.2
0°-90°	8870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8870.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3591	3591	3591	3591	3591	
5°	3584	3568	3573	3558	3562	340
15°	3408	3388	3377	3359	3365	960
25°	3076	3052	3036	3019	3033	1416
35°	2627	2600	2594	2612	2640	1641
45°	2102	2085	2109	2158	2189	1622
55°	1544	1533	1579	1638	1659	1378
65°	961	964	1003	1020	1023	950
75°	402	408	417	396	382	432
85°	46	49	54	61	64	69
90°	0	0	0	0	0	

TEST NUMBER: P1498691

CATALOG NUMBER: MAE-G-2-120-3HI-STD-50-90-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3590.7	3590.7	3590.7	3590.7	3590.7
2.5°	3600.0	3584.0	3590.7	3579.2	3575.7
5°	3583.7	3567.6	3572.7	3557.7	3562.2
7.5°	3555.8	3539.1	3540.7	3524.9	3529.2
10°	3517.9	3498.7	3497.3	3479.8	3483.4
12.5°	3467.5	3448.2	3443.0	3423.4	3429.7
15°	3408.4	3387.5	3377.3	3359.0	3364.9
17.5°	3339.8	3317.3	3305.3	3283.6	3292.9
20°	3261.1	3237.4	3223.0	3199.6	3212.2
22.5°	3172.8	3148.5	3131.6	3111.7	3124.7
25°	3075.8	3052.0	3036.3	3018.9	3032.6
27.5°	2973.7	2947.2	2932.4	2921.8	2936.7
30°	2863.3	2836.3	2822.7	2818.7	2839.7
32.5°	2746.5	2720.5	2710.1	2717.2	2741.3
35°	2626.9	2599.6	2593.7	2612.2	2640.0
37.5°	2498.1	2476.4	2476.5	2506.0	2534.4
40°	2370.8	2348.0	2356.2	2393.1	2422.9
42.5°	2239.0	2219.8	2234.1	2279.6	2307.5
45°	2102.4	2085.3	2109.1	2158.3	2188.7
47.5°	1968.6	1950.6	1981.3	2034.6	2067.1
50°	1825.8	1812.6	1849.1	1907.6	1938.0
52.5°	1684.6	1671.8	1714.9	1776.3	1805.2
55°	1543.5	1532.7	1579.0	1638.2	1658.9
57.5°	1397.7	1394.1	1440.9	1492.4	1513.5
60°	1252.6	1250.3	1296.6	1343.1	1361.4
62.5°	1107.5	1108.5	1151.6	1187.8	1192.9
65°	961.1	964.0	1003.3	1020.4	1023.1
67.5°	813.2	819.9	854.1	860.3	858.7
70°	669.1	673.4	702.1	700.7	690.9
72.5°	529.1	536.8	553.2	544.2	529.4
75°	401.8	408.0	417.3	396.3	382.1
77.5°	283.1	287.6	288.8	266.2	256.6
80°	180.7	186.4	178.6	166.2	159.8
82.5°	100.6	105.7	98.9	104.4	107.1
85°	46.2	48.7	54.1	61.4	64.3
87.5°	15.7	18.3	22.0	23.4	21.7
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	18.81	20.40	19.18	20.71	21.02	19.30	20.88	19.67	21.20	21.51
	3H	20.25	21.68	20.63	22.00	22.37	20.68	22.10	21.06	22.43	22.79
	4H	20.67	22.01	21.07	22.35	22.73	21.02	22.36	21.42	22.71	23.09
	6H	20.87	22.10	21.28	22.47	22.86	21.16	22.39	21.57	22.76	23.15
	8H	20.89	22.07	21.31	22.46	22.86	21.17	22.35	21.60	22.74	23.14
	12H	20.89	22.01	21.32	22.39	22.82	21.18	22.30	21.61	22.69	23.12
4H	2H	19.41	20.75	19.81	21.09	21.47	19.81	21.14	20.20	21.49	21.87
	3H	21.02	22.13	21.43	22.53	22.93	21.37	22.48	21.78	22.88	23.28
	4H	21.52	22.52	21.96	22.94	23.37	21.79	22.79	22.22	23.21	23.64
	6H	21.79	22.66	22.25	23.10	23.56	21.99	22.85	22.44	23.30	23.75
	8H	21.83	22.64	22.29	23.08	23.55	22.02	22.83	22.48	23.27	23.74
	12H	21.84	22.56	22.32	23.04	23.51	22.04	22.76	22.52	23.24	23.71
8H	4H	21.70	22.51	22.16	22.96	23.42	21.95	22.76	22.41	23.20	23.67
	6H	22.02	22.69	22.52	23.18	23.66	22.18	22.85	22.68	23.34	23.82
	8H	22.08	22.68	22.59	23.19	23.68	22.23	22.83	22.75	23.34	23.83
	12H	22.11	22.64	22.62	23.13	23.69	22.28	22.81	22.79	23.30	23.86
12H	4H	21.69	22.42	22.18	22.90	23.37	21.94	22.67	22.42	23.14	23.61
	6H	22.01	22.61	22.52	23.12	23.60	22.17	22.77	22.68	23.28	23.77
	8H	22.10	22.63	22.61	23.12	23.68	22.26	22.78	22.76	23.28	23.84