

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: P1498688

Luminaire Tested: MAE-G-2-120-3HI-STD-40-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498688
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-40-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

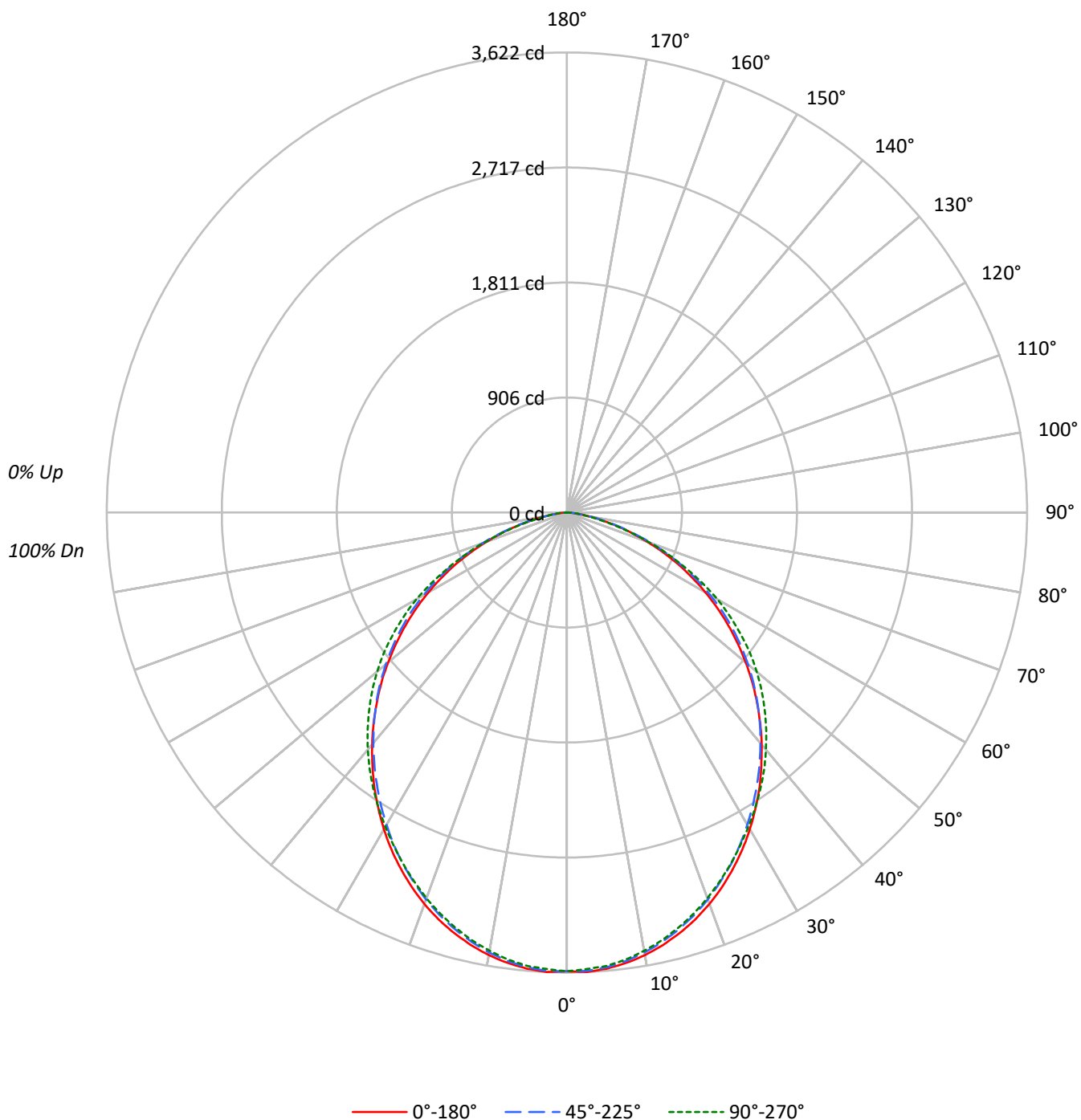
Lumens per Lamp: N/A
Luminaire Lumens: 8923.0 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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: P1498688

CATALOG NUMBER: MAE-G-2-120-3HI-STD-40-WDDCPH

Luminous Intensity Polar Plot



TEST NUMBER: P1498688

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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°	9720	9720	9720
5°	9738	9709	9680
10°	9670	9613	9575
15°	9552	9465	9430
20°	9394	9285	9254
25°	9187	9069	9058
30°	8950	8823	8876
35°	8681	8572	8725
40°	8378	8326	8562
45°	8049	8074	8379
50°	7689	7787	8161
55°	7285	7452	7829
60°	6782	7020	7371
65°	6156	6426	6553
70°	5296	5557	5468
75°	4201	4365	3997
80°	2817	2783	2490
85°	1436	1680	1998

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8379 cd/sqm

TEST NUMBER: P1498688

CATALOG NUMBER: MAE-G-2-120-3HI-STD-40-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.2	3.8
10°-20°	957.3	10.7
20°-30°	1408.2	15.8
30°-40°	1642.1	18.4
40°-50°	1648.2	18.5
50°-60°	1426.0	16.0
60°-70°	989.9	11.1
70°-80°	438.2	4.9
80°-90°	72.8	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°	2705.7	30.3
0°-40°	4347.8	48.7
0°-60°	7422.0	83.2
0°-90°	8923.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8923.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3612	3612	3612	3612	3612	
5°	3605	3589	3594	3579	3584	342
15°	3429	3408	3398	3379	3385	966
25°	3094	3070	3054	3037	3051	1425
35°	2643	2615	2609	2628	2656	1651
45°	2115	2098	2122	2171	2202	1632
55°	1553	1542	1588	1648	1669	1386
65°	967	970	1009	1026	1029	956
75°	404	410	420	399	384	434
85°	46	49	54	62	65	69
90°	0	0	0	0	0	

TEST NUMBER: P1498688

CATALOG NUMBER: MAE-G-2-120-3HI-STD-40-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3612.2	3612.2	3612.2	3612.2	3612.2
2.5°	3621.6	3605.4	3612.2	3600.6	3597.2
5°	3605.1	3589.0	3594.1	3579.0	3583.6
7.5°	3577.1	3560.3	3561.8	3545.9	3550.3
10°	3538.9	3519.7	3518.1	3500.6	3504.2
12.5°	3488.2	3468.8	3463.6	3443.8	3450.2
15°	3428.8	3407.7	3397.6	3379.1	3385.0
17.5°	3359.8	3337.1	3325.1	3303.2	3312.7
20°	3280.5	3256.7	3242.3	3218.8	3231.4
22.5°	3191.9	3167.4	3150.4	3130.3	3143.4
25°	3094.1	3070.1	3054.5	3036.9	3050.6
27.5°	2991.5	2964.8	2949.9	2939.2	2954.3
30°	2880.4	2853.2	2839.6	2835.6	2856.6
32.5°	2763.0	2736.8	2726.4	2733.5	2757.6
35°	2642.6	2615.2	2609.3	2627.7	2655.8
37.5°	2513.1	2491.2	2491.3	2520.9	2549.6
40°	2385.0	2362.0	2370.3	2407.4	2437.3
42.5°	2252.3	2233.0	2247.4	2293.1	2321.2
45°	2115.0	2097.8	2121.7	2171.1	2201.8
47.5°	1980.4	1962.3	1993.2	2046.7	2079.4
50°	1836.7	1823.4	1860.1	1919.1	1949.5
52.5°	1694.6	1681.8	1725.2	1786.9	1816.0
55°	1552.8	1541.8	1588.4	1648.0	1668.8
57.5°	1406.1	1402.5	1449.6	1501.3	1522.6
60°	1260.1	1257.8	1304.3	1351.0	1369.5
62.5°	1114.1	1115.2	1158.5	1194.9	1200.1
65°	966.8	969.7	1009.2	1026.4	1029.2
67.5°	818.1	824.7	859.1	865.4	863.8
70°	673.1	677.4	706.3	704.9	695.0
72.5°	532.3	540.1	556.5	547.5	532.6
75°	404.1	410.5	419.8	398.7	384.4
77.5°	284.8	289.3	290.5	267.8	258.2
80°	181.8	187.6	179.6	167.2	160.7
82.5°	101.2	106.3	99.5	105.0	107.8
85°	46.5	48.9	54.4	61.7	64.7
87.5°	15.9	18.4	22.1	23.5	21.8
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	18.83	20.42	19.20	20.73	21.04	19.32	20.91	19.69	21.22	21.53
	3H	20.27	21.70	20.65	22.03	22.39	20.70	22.13	21.08	22.45	22.81
	4H	20.69	22.03	21.09	22.37	22.75	21.05	22.38	21.44	22.73	23.11
	6H	20.89	22.12	21.30	22.49	22.88	21.18	22.41	21.59	22.78	23.17
	8H	20.91	22.09	21.34	22.48	22.88	21.19	22.37	21.62	22.76	23.16
	12H	20.91	22.03	21.34	22.42	22.84	21.20	22.33	21.63	22.71	23.14
4H	2H	19.43	20.77	19.83	21.12	21.49	19.83	21.16	20.22	21.51	21.89
	3H	21.04	22.15	21.45	22.55	22.95	21.39	22.50	21.80	22.90	23.30
	4H	21.54	22.54	21.98	22.96	23.40	21.81	22.81	22.24	23.23	23.66
	6H	21.81	22.68	22.27	23.12	23.58	22.01	22.88	22.46	23.32	23.77
	8H	21.85	22.66	22.31	23.11	23.57	22.04	22.85	22.50	23.29	23.76
	12H	21.86	22.59	22.34	23.06	23.53	22.06	22.78	22.54	23.26	23.73
8H	4H	21.72	22.53	22.18	22.98	23.44	21.97	22.78	22.43	23.22	23.69
	6H	22.04	22.71	22.54	23.20	23.68	22.20	22.87	22.70	23.36	23.84
	8H	22.10	22.70	22.61	23.21	23.70	22.25	22.85	22.77	23.36	23.85
	12H	22.13	22.66	22.64	23.15	23.71	22.30	22.83	22.81	23.32	23.88
12H	4H	21.72	22.44	22.20	22.92	23.39	21.96	22.69	22.44	23.16	23.63
	6H	22.03	22.63	22.54	23.14	23.63	22.19	22.79	22.70	23.30	23.79
	8H	22.12	22.65	22.63	23.14	23.71	22.28	22.80	22.78	23.30	23.86