

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: P1499489

Luminaire Tested: MAE-G-4-120-3HI-HI-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499489
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-4-120-3HI-HI-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

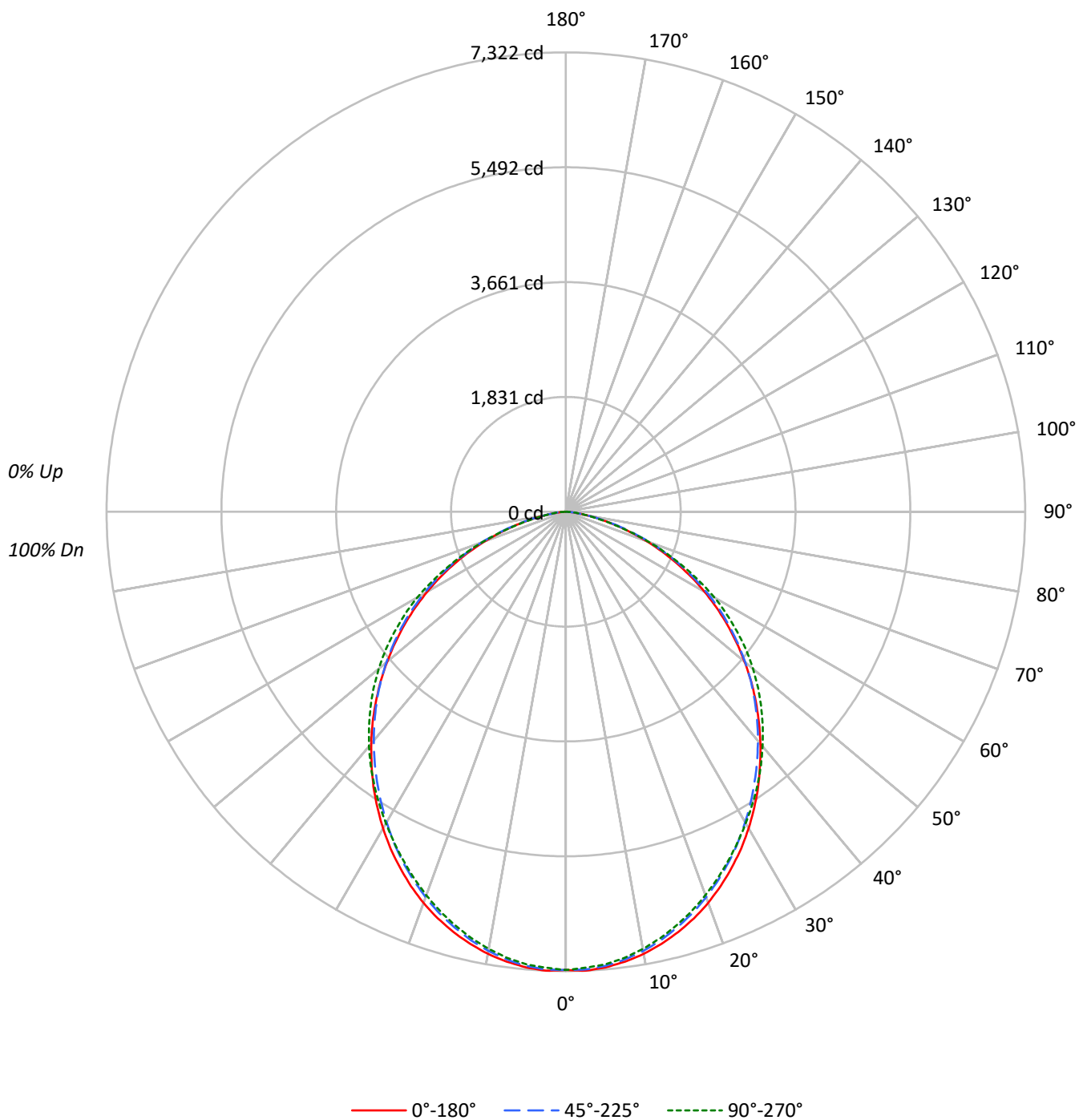
Lumens per Lamp: N/A
Luminaire Lumens: 17978.0 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 221.8
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: P1499489

CATALOG NUMBER: MAE-G-4-120-3HI-HI-30-90-WDDCPH

Luminous Intensity Polar Plot



TEST NUMBER: P1499489

CATALOG NUMBER: MAE-G-4-120-3HI-HI-30-90-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	101	98	107	103	99	96	99	96	93		95	92	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°	9826	9826	9826
5°	9844	9813	9781
10°	9776	9711	9664
15°	9657	9554	9504
20°	9499	9362	9313
25°	9291	9136	9103
30°	9053	8880	8909
35°	8782	8620	8744
40°	8477	8366	8570
45°	8146	8106	8377
50°	7784	7812	8149
55°	7375	7472	7815
60°	6869	7035	7366
65°	6239	6443	6585
70°	5373	5596	5547
75°	4269	4438	4138
80°	2872	2900	2683
85°	1473	1811	2197

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8377 cd/sqm

TEST NUMBER: P1499489

CATALOG NUMBER: MAE-G-4-120-3HI-HI-30-90-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.6	3.8
10°-20°	1932.4	10.7
20°-30°	2838.3	15.8
30°-40°	3304.9	18.4
40°-50°	3312.7	18.4
50°-60°	2863.1	15.9
60°-70°	1991.8	11.1
70°-80°	893.0	5.0
80°-90°	154.1	0.9
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°	5458.3	30.4
0°-40°	8763.3	48.7
0°-60°	14939.1	83.1
0°-90°	17978.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17978.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7303	7303	7303	7303	7303	
5°	7289	7257	7265	7232	7242	691
15°	6933	6889	6858	6812	6823	1954
25°	6258	6203	6154	6108	6132	2881
35°	5347	5281	5248	5272	5324	3340
45°	4281	4234	4260	4346	4402	3303
55°	3144	3110	3185	3293	3331	2807
65°	1960	1955	2024	2061	2068	1937
75°	821	829	854	821	796	882
85°	95	102	117	135	142	141
90°	0	0	0	0	0	

TEST NUMBER: P1499489

CATALOG NUMBER: MAE-G-4-120-3HI-HI-30-90-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7303.2	7303.2	7303.2	7303.2	7303.2
2.5°	7321.6	7291.2	7303.2	7277.2	7271.9
5°	7288.7	7257.3	7265.3	7231.9	7241.6
7.5°	7232.1	7198.9	7198.4	7162.1	7171.1
10°	7155.2	7116.3	7108.1	7066.7	7073.7
12.5°	7053.0	7013.0	6995.0	6947.9	6959.6
15°	6932.9	6888.8	6858.5	6812.3	6822.9
17.5°	6793.8	6745.2	6708.7	6654.9	6672.4
20°	6634.0	6581.9	6538.2	6480.9	6503.9
22.5°	6455.1	6400.3	6350.3	6299.2	6322.4
25°	6258.1	6202.8	6153.8	6107.5	6131.7
27.5°	6050.9	5989.4	5940.2	5907.3	5934.1
30°	5826.7	5763.1	5715.7	5695.8	5734.0
32.5°	5589.9	5527.1	5485.5	5487.5	5531.6
35°	5346.8	5280.7	5247.7	5272.1	5323.6
37.5°	5085.3	5030.0	5008.2	5054.8	5107.1
40°	4826.3	4768.6	4763.0	4824.2	4879.3
42.5°	4558.3	4507.5	4514.4	4592.9	4644.1
45°	4280.8	4233.9	4259.9	4346.3	4402.2
47.5°	4008.3	3960.1	4000.7	4095.1	4155.5
50°	3718.5	3679.5	3732.2	3837.6	3893.0
52.5°	3430.7	3393.2	3460.4	3571.6	3625.1
55°	3144.1	3110.5	3185.1	3293.0	3331.4
57.5°	2847.6	2828.8	2905.8	3000.4	3040.5
60°	2552.7	2536.6	2614.3	2701.7	2737.4
62.5°	2257.3	2248.4	2322.1	2392.5	2404.3
65°	1959.8	1955.1	2023.9	2061.1	2068.3
67.5°	1659.1	1662.8	1725.2	1743.7	1742.6
70°	1365.9	1365.8	1422.4	1426.5	1410.1
72.5°	1081.0	1089.2	1125.4	1115.5	1089.5
75°	821.1	828.6	853.7	820.6	795.9
77.5°	579.4	585.6	596.1	559.7	544.2
80°	370.7	382.0	374.3	356.9	346.3
82.5°	207.0	218.6	211.8	227.5	234.7
85°	95.4	102.3	117.3	135.1	142.3
87.5°	32.5	38.7	48.1	51.2	47.8
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1499489

CATALOG NUMBER: MAE-G-4-120-3HI-HI-30-90-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	18.87	20.45	19.24	20.77	21.08	19.29	20.87	19.65	21.19	21.50
	3H	20.32	21.74	20.69	22.07	22.43	20.70	22.12	21.07	22.45	22.81
	4H	20.73	22.07	21.13	22.42	22.80	21.06	22.40	21.46	22.75	23.12
	6H	20.94	22.17	21.35	22.54	22.93	21.21	22.45	21.62	22.81	23.20
	8H	20.96	22.14	21.39	22.53	22.93	21.24	22.41	21.66	22.80	23.20
	12H	20.96	22.08	21.39	22.47	22.90	21.25	22.37	21.68	22.76	23.18
4H	2H	19.46	20.80	19.86	21.14	21.52	19.80	21.14	20.20	21.48	21.86
	3H	21.08	22.19	21.49	22.59	22.99	21.39	22.50	21.80	22.90	23.30
	4H	21.58	22.58	22.01	23.00	23.43	21.84	22.84	22.27	23.25	23.69
	6H	21.86	22.73	22.31	23.17	23.62	22.06	22.92	22.51	23.37	23.82
	8H	21.90	22.71	22.36	23.15	23.62	22.10	22.91	22.56	23.35	23.82
	12H	21.91	22.63	22.39	23.11	23.58	22.12	22.85	22.61	23.33	23.80
8H	4H	21.76	22.58	22.23	23.02	23.49	22.00	22.81	22.46	23.25	23.72
	6H	22.09	22.76	22.58	23.25	23.73	22.26	22.93	22.76	23.42	23.90
	8H	22.15	22.75	22.67	23.26	23.75	22.33	22.93	22.84	23.43	23.92
	12H	22.18	22.71	22.69	23.21	23.77	22.39	22.91	22.89	23.41	23.97
12H	4H	21.76	22.49	22.24	22.96	23.43	21.99	22.72	22.47	23.19	23.66
	6H	22.08	22.68	22.59	23.19	23.68	22.25	22.85	22.76	23.36	23.85
	8H	22.18	22.71	22.69	23.20	23.76	22.35	22.88	22.86	23.37	23.94

END OF REPORT