

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: P1499555

Luminaire Tested: MAE-G-4-120-3HI-STD-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499555
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-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

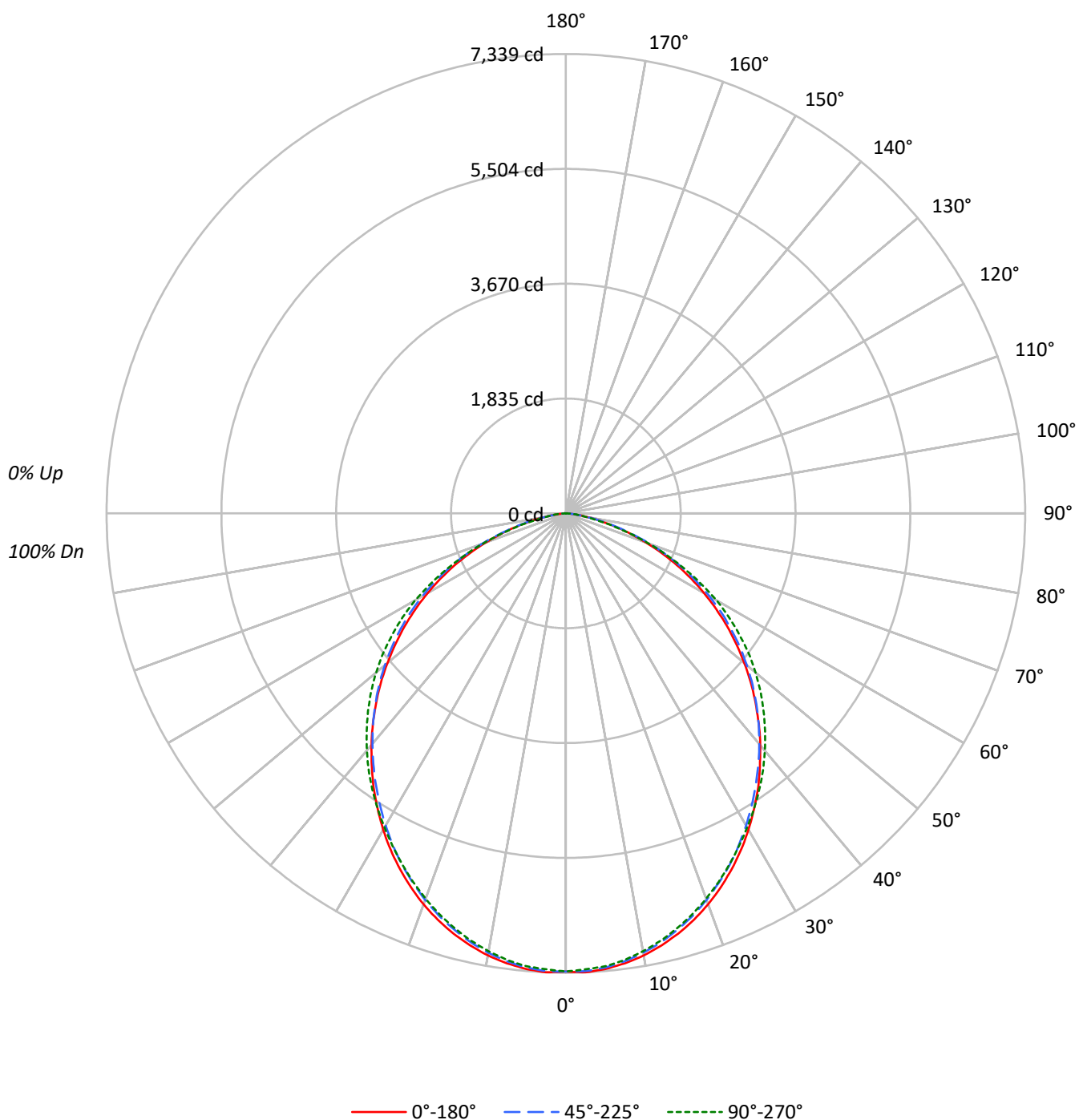
Lumens per Lamp: N/A
Luminaire Lumens: 18091.0 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 201.4
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

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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°	9849	9849	9849
5°	9867	9837	9809
10°	9798	9741	9704
15°	9678	9593	9559
20°	9518	9411	9382
25°	9308	9194	9185
30°	9068	8946	9003
35°	8795	8691	8851
40°	8487	8444	8687
45°	8154	8189	8503
50°	7789	7899	8284
55°	7380	7560	7947
60°	6870	7121	7480
65°	6235	6519	6646
70°	5364	5634	5537
75°	4255	4419	4035
80°	2851	2808	2500
85°	1451	1686	1996

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8503 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	689.5	3.8
10°-20°	1940.4	10.7
20°-30°	2854.9	15.8
30°-40°	3329.7	18.4
40°-50°	3342.9	18.5
50°-60°	2892.6	16.0
60°-70°	2007.5	11.1
70°-80°	886.9	4.9
80°-90°	146.6	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°	5484.7	30.3
0°-40°	8814.4	48.7
0°-60°	15049.9	83.2
0°-90°	18091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18091.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7320	7320	7320	7320	7320	
5°	7306	7273	7283	7253	7262	693
15°	6948	6906	6886	6850	6863	1958
25°	6270	6222	6193	6159	6187	2887
35°	5354	5300	5292	5331	5388	3345
45°	4285	4252	4304	4406	4469	3306
55°	3146	3126	3223	3345	3388	2808
65°	1958	1966	2048	2082	2088	1936
75°	818	832	850	806	776	879
85°	94	99	109	124	129	140
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7319.9	7319.9	7319.9	7319.9	7319.9
2.5°	7338.9	7306.0	7319.9	7296.6	7289.5
5°	7305.6	7272.6	7283.3	7253.2	7262.3
7.5°	7248.8	7214.6	7218.4	7186.6	7195.5
10°	7171.4	7132.2	7130.1	7095.2	7102.5
12.5°	7068.7	7029.4	7020.0	6981.0	6993.9
15°	6948.1	6905.7	6886.5	6850.4	6862.6
17.5°	6808.3	6762.7	6740.2	6697.2	6716.4
20°	6647.6	6599.9	6572.7	6526.5	6552.5
22.5°	6467.8	6418.9	6386.7	6347.7	6374.6
25°	6269.8	6222.1	6192.9	6158.9	6187.2
27.5°	6061.6	6008.7	5981.3	5961.3	5992.4
30°	5836.4	5782.6	5758.1	5751.5	5794.9
32.5°	5598.4	5546.8	5528.5	5544.8	5594.6
35°	5354.5	5300.4	5291.5	5330.9	5388.5
37.5°	5092.0	5049.3	5052.6	5114.7	5173.4
40°	4832.2	4787.4	4807.5	4884.6	4946.0
42.5°	4563.6	4526.2	4558.7	4653.4	4711.1
45°	4285.2	4252.1	4303.8	4405.9	4468.9
47.5°	4012.5	3977.6	4043.4	4153.7	4220.9
50°	3721.3	3696.1	3773.6	3894.9	3957.6
52.5°	3433.5	3409.1	3500.0	3627.0	3686.6
55°	3145.9	3125.5	3222.7	3345.2	3387.9
57.5°	2848.6	2843.0	2941.0	3047.3	3090.9
60°	2552.8	2549.6	2646.4	2742.1	2779.7
62.5°	2257.0	2260.7	2350.4	2424.7	2434.9
65°	1958.5	1966.0	2047.6	2082.1	2087.5
67.5°	1657.1	1672.0	1742.7	1754.7	1750.9
70°	1363.4	1373.4	1432.1	1428.1	1407.6
72.5°	1078.0	1094.7	1127.5	1108.1	1077.6
75°	818.4	831.9	850.1	805.8	776.1
77.5°	576.5	586.0	587.4	540.1	520.0
80°	367.9	379.7	362.4	336.2	322.7
82.5°	204.6	214.9	200.1	210.8	216.0
85°	94.0	98.8	109.2	123.7	129.3
87.5°	32.0	37.0	44.4	47.0	43.5
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	18.88	20.46	19.24	20.78	21.09	19.38	20.96	19.74	21.27	21.59
	3H	20.32	21.74	20.70	22.07	22.43	20.75	22.18	21.13	22.50	22.87
	4H	20.73	22.07	21.13	22.42	22.80	21.09	22.43	21.49	22.78	23.16
	6H	20.93	22.17	21.34	22.53	22.92	21.22	22.46	21.63	22.82	23.22
	8H	20.95	22.13	21.38	22.52	22.92	21.24	22.42	21.66	22.81	23.21
	12H	20.95	22.08	21.38	22.46	22.89	21.24	22.37	21.67	22.75	23.18
4H	2H	19.48	20.81	19.88	21.16	21.54	19.88	21.22	20.28	21.57	21.94
	3H	21.09	22.20	21.50	22.60	23.00	21.44	22.55	21.85	22.95	23.35
	4H	21.59	22.59	22.02	23.00	23.44	21.86	22.86	22.29	23.27	23.71
	6H	21.86	22.73	22.31	23.17	23.63	22.05	22.92	22.51	23.36	23.82
	8H	21.90	22.71	22.36	23.15	23.62	22.08	22.89	22.54	23.33	23.80
	12H	21.90	22.63	22.39	23.11	23.58	22.10	22.82	22.58	23.30	23.77
8H	4H	21.77	22.58	22.23	23.02	23.49	22.01	22.82	22.48	23.27	23.73
	6H	22.08	22.75	22.58	23.24	23.72	22.25	22.91	22.74	23.40	23.88
	8H	22.15	22.74	22.66	23.25	23.74	22.30	22.89	22.81	23.40	23.89
	12H	22.17	22.70	22.68	23.19	23.76	22.34	22.87	22.85	23.36	23.92
12H	4H	21.76	22.48	22.24	22.96	23.43	22.01	22.73	22.49	23.21	23.68
	6H	22.07	22.67	22.59	23.18	23.67	22.23	22.83	22.75	23.34	23.83
	8H	22.17	22.69	22.67	23.18	23.75	22.32	22.84	22.83	23.34	23.90