

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: P1499549

Luminaire Tested: MAE-G-4-120-3HI-STD-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499549
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-40-90-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

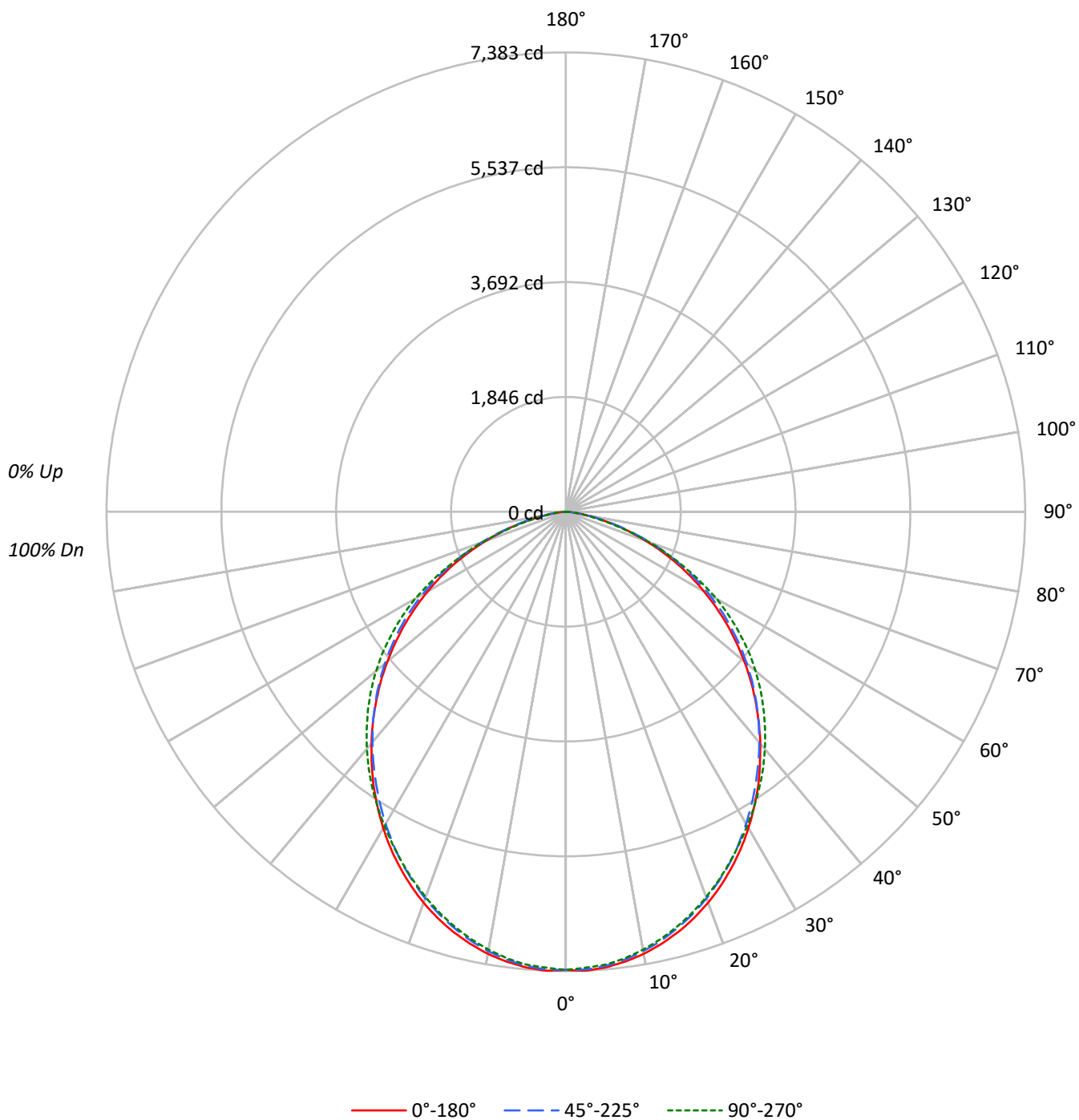
Lumens per Lamp: N/A
Luminaire Lumens: 18199.0 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1499549

CATALOG NUMBER: MAE-G-4-120-3HI-STD-40-90-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°	9908	9908	9908
5°	9926	9896	9867
10°	9856	9800	9762
15°	9736	9650	9616
20°	9575	9467	9438
25°	9364	9249	9240
30°	9122	8999	9057
35°	8848	8743	8904
40°	8538	8494	8739
45°	8202	8238	8554
50°	7836	7946	8333
55°	7424	7605	7995
60°	6911	7164	7525
65°	6272	6558	6685
70°	5395	5668	5570
75°	4279	4445	4059
80°	2868	2826	2515
85°	1459	1697	2008

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8554 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	693.6	3.8
10°-20°	1951.9	10.7
20°-30°	2871.9	15.8
30°-40°	3349.6	18.4
40°-50°	3362.9	18.5
50°-60°	2909.8	16.0
60°-70°	2019.4	11.1
70°-80°	892.2	4.9
80°-90°	147.5	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°	5517.4	30.3
0°-40°	8867.1	48.7
0°-60°	15139.8	83.2
0°-90°	18199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18199.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7364	7364	7364	7364	7364	
5°	7349	7316	7327	7296	7306	697
15°	6990	6947	6928	6891	6904	1970
25°	6307	6259	6230	6196	6224	2904
35°	5386	5332	5323	5363	5421	3365
45°	4311	4278	4330	4432	4496	3326
55°	3165	3144	3242	3365	3408	2825
65°	1970	1978	2060	2094	2100	1947
75°	823	837	855	811	781	884
85°	94	99	110	124	130	141
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7363.5	7363.5	7363.5	7363.5	7363.5
2.5°	7382.8	7349.6	7363.5	7340.2	7333.0
5°	7349.2	7316.0	7326.9	7296.5	7305.7
7.5°	7292.1	7257.6	7261.4	7229.5	7238.4
10°	7214.2	7174.8	7172.7	7137.6	7145.0
12.5°	7110.9	7071.3	7061.9	7022.7	7035.6
15°	6989.5	6947.0	6927.7	6891.2	6903.5
17.5°	6848.9	6803.1	6780.4	6737.2	6756.6
20°	6687.3	6639.3	6612.0	6565.5	6591.5
22.5°	6506.4	6457.3	6424.8	6385.5	6412.7
25°	6307.2	6259.3	6229.9	6195.6	6224.1
27.5°	6097.8	6044.6	6017.0	5996.9	6028.1
30°	5871.2	5817.1	5792.5	5785.8	5829.5
32.5°	5631.8	5579.9	5561.5	5578.0	5627.9
35°	5386.5	5332.1	5323.1	5362.7	5420.7
37.5°	5122.4	5079.5	5082.7	5145.2	5204.3
40°	4861.1	4816.1	4836.2	4913.8	4975.6
42.5°	4590.8	4553.2	4585.8	4681.1	4739.2
45°	4310.7	4277.5	4329.5	4432.3	4495.6
47.5°	4036.5	4001.3	4067.5	4178.5	4246.1
50°	3743.4	3718.1	3796.1	3918.2	3981.2
52.5°	3454.1	3429.4	3520.9	3648.7	3708.6
55°	3164.7	3144.2	3241.9	3365.2	3408.1
57.5°	2865.6	2859.9	2958.6	3065.5	3109.3
60°	2568.1	2564.9	2662.3	2758.5	2796.4
62.5°	2270.5	2274.2	2364.5	2439.2	2449.5
65°	1970.1	1977.6	2059.8	2094.5	2099.9
67.5°	1666.9	1681.9	1753.1	1765.1	1761.4
70°	1371.5	1381.6	1440.7	1436.7	1416.0
72.5°	1084.4	1101.3	1134.3	1114.8	1084.0
75°	823.2	836.9	855.1	810.6	780.8
77.5°	579.9	589.6	590.8	543.3	523.2
80°	370.2	382.0	364.7	338.1	324.6
82.5°	205.8	216.2	201.3	212.0	217.4
85°	94.5	99.3	109.9	124.4	130.1
87.5°	32.3	37.2	44.6	47.2	43.8
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	18.90	20.48	19.26	20.80	21.11	19.40	20.98	19.76	21.30	21.61
	3H	20.34	21.76	20.72	22.09	22.45	20.77	22.20	21.15	22.52	22.89
	4H	20.75	22.09	21.15	22.44	22.82	21.11	22.45	21.51	22.80	23.18
	6H	20.95	22.19	21.36	22.55	22.94	21.24	22.48	21.66	22.84	23.24
	8H	20.97	22.15	21.40	22.54	22.94	21.26	22.44	21.68	22.83	23.23
	12H	20.97	22.10	21.40	22.48	22.91	21.26	22.39	21.69	22.77	23.20
4H	2H	19.50	20.83	19.90	21.18	21.56	19.90	21.24	20.30	21.59	21.96
	3H	21.11	22.22	21.52	22.62	23.02	21.46	22.57	21.87	22.97	23.37
	4H	21.61	22.61	22.04	23.02	23.46	21.88	22.88	22.31	23.29	23.73
	6H	21.88	22.75	22.34	23.19	23.65	22.07	22.94	22.53	23.38	23.84
	8H	21.92	22.73	22.38	23.17	23.64	22.10	22.91	22.56	23.35	23.82
	12H	21.93	22.65	22.41	23.13	23.60	22.12	22.85	22.60	23.32	23.79
8H	4H	21.79	22.60	22.25	23.04	23.51	22.03	22.84	22.50	23.29	23.75
	6H	22.11	22.77	22.60	23.26	23.74	22.27	22.93	22.76	23.42	23.90
	8H	22.17	22.76	22.68	23.27	23.76	22.32	22.91	22.83	23.42	23.91
	12H	22.20	22.72	22.70	23.21	23.78	22.36	22.89	22.87	23.38	23.94
12H	4H	21.78	22.51	22.26	22.98	23.45	22.03	22.75	22.51	23.23	23.70
	6H	22.09	22.69	22.61	23.20	23.69	22.26	22.86	22.77	23.36	23.85
	8H	22.19	22.71	22.69	23.21	23.77	22.34	22.87	22.85	23.36	23.92

END OF REPORT