

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: P1499548

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499548
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-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

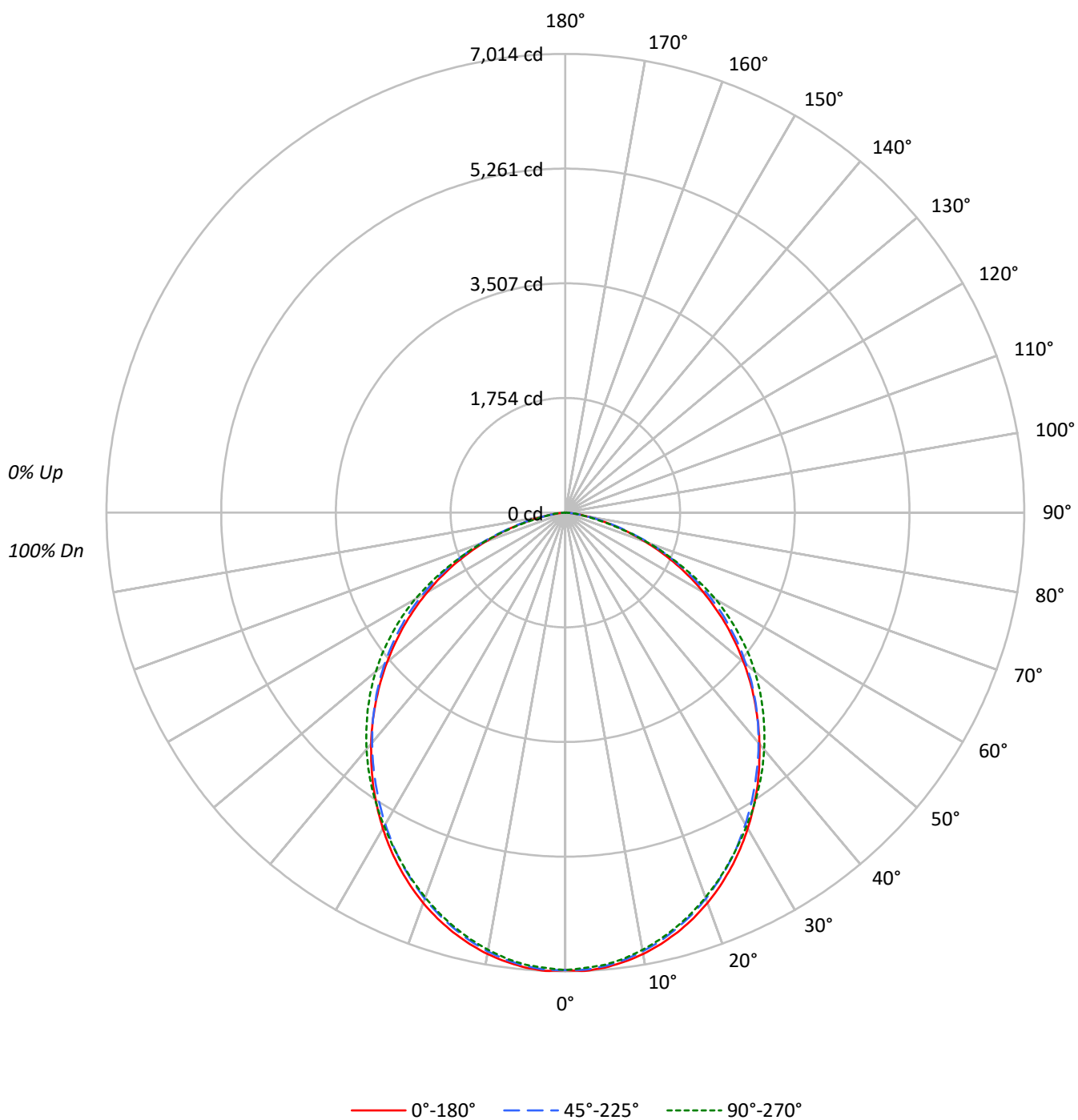
Lumens per Lamp: N/A
Luminaire Lumens: 17289.0 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	9412	9412	9412
5°	9430	9401	9374
10°	9364	9310	9274
15°	9249	9167	9135
20°	9096	8994	8966
25°	8895	8786	8778
30°	8666	8549	8604
35°	8405	8306	8458
40°	8111	8069	8302
45°	7792	7826	8127
50°	7444	7549	7917
55°	7052	7225	7595
60°	6565	6806	7149
65°	5959	6230	6351
70°	5126	5384	5292
75°	4066	4223	3856
80°	2725	2684	2390
85°	1386	1612	1908

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8127 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.9	3.8
10°-20°	1854.3	10.7
20°-30°	2728.3	15.8
30°-40°	3182.1	18.4
40°-50°	3194.7	18.5
50°-60°	2764.3	16.0
60°-70°	1918.5	11.1
70°-80°	847.6	4.9
80°-90°	140.1	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°	5241.6	30.3
0°-40°	8423.7	48.7
0°-60°	14382.7	83.2
0°-90°	17289.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17289.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6995	6995	6995	6995	6995	
5°	6982	6950	6960	6932	6940	662
15°	6640	6600	6581	6547	6558	1871
25°	5992	5946	5918	5886	5913	2759
35°	5117	5065	5057	5095	5150	3197
45°	4095	4064	4113	4211	4271	3160
55°	3006	2987	3080	3197	3238	2684
65°	1872	1879	1957	1990	1995	1850
75°	782	795	812	770	742	840
85°	90	94	104	118	124	134
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6995.3	6995.3	6995.3	6995.3	6995.3
2.5°	7013.6	6982.1	6995.3	6973.2	6966.3
5°	6981.8	6950.2	6960.5	6931.6	6940.3
7.5°	6927.5	6894.8	6898.3	6868.0	6876.4
10°	6853.5	6816.0	6814.0	6780.7	6787.7
12.5°	6755.3	6717.7	6708.8	6671.5	6683.8
15°	6640.1	6599.6	6581.3	6546.7	6558.3
17.5°	6506.4	6462.9	6441.4	6400.3	6418.7
20°	6352.9	6307.3	6281.3	6237.2	6261.9
22.5°	6181.1	6134.4	6103.6	6066.2	6092.1
25°	5991.8	5946.2	5918.4	5885.8	5912.9
27.5°	5793.0	5742.3	5716.1	5697.1	5726.7
30°	5577.7	5526.3	5502.8	5496.5	5537.9
32.5°	5350.2	5300.8	5283.4	5299.0	5346.5
35°	5117.2	5065.4	5056.9	5094.6	5149.6
37.5°	4866.3	4825.4	4828.6	4887.9	4944.1
40°	4618.0	4575.3	4594.3	4668.0	4726.7
42.5°	4361.2	4325.5	4356.6	4447.0	4502.2
45°	4095.2	4063.7	4113.0	4210.6	4270.8
47.5°	3834.6	3801.2	3864.1	3969.6	4033.8
50°	3556.3	3532.2	3606.2	3722.3	3782.1
52.5°	3281.3	3257.9	3344.9	3466.3	3523.1
55°	3006.4	2987.0	3079.8	3196.9	3237.7
57.5°	2722.3	2716.9	2810.7	2912.2	2953.9
60°	2439.7	2436.6	2529.2	2620.6	2656.5
62.5°	2156.9	2160.5	2246.3	2317.2	2327.0
65°	1871.6	1878.8	1956.8	1989.9	1994.9
67.5°	1583.6	1597.8	1665.4	1676.9	1673.3
70°	1302.9	1312.5	1368.7	1364.9	1345.2
72.5°	1030.2	1046.2	1077.6	1059.0	1029.8
75°	782.1	795.1	812.3	770.0	741.8
77.5°	551.0	560.0	561.3	516.1	497.0
80°	351.7	362.8	346.4	321.3	308.4
82.5°	195.6	205.3	191.2	201.4	206.5
85°	89.8	94.4	104.4	118.2	123.6
87.5°	30.7	35.4	42.4	44.9	41.6
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	18.72	20.30	19.08	20.62	20.93	19.22	20.80	19.58	21.12	21.43
	3H	20.16	21.59	20.54	21.91	22.27	20.60	22.02	20.97	22.35	22.71
	4H	20.58	21.91	20.98	22.26	22.64	20.94	22.27	21.34	22.62	23.00
	6H	20.77	22.01	21.18	22.37	22.77	21.07	22.30	21.48	22.67	23.06
	8H	20.80	21.97	21.22	22.36	22.76	21.08	22.26	21.51	22.65	23.05
	12H	20.79	21.92	21.22	22.30	22.73	21.08	22.21	21.51	22.59	23.02
4H	2H	19.32	20.66	19.72	21.00	21.38	19.72	21.06	20.12	21.41	21.79
	3H	20.93	22.04	21.34	22.44	22.84	21.28	22.39	21.69	22.79	23.19
	4H	21.43	22.43	21.86	22.85	23.28	21.70	22.70	22.13	23.12	23.55
	6H	21.70	22.57	22.16	23.01	23.47	21.89	22.76	22.35	23.20	23.66
	8H	21.74	22.55	22.20	22.99	23.46	21.92	22.73	22.38	23.18	23.64
	12H	21.75	22.47	22.23	22.95	23.42	21.94	22.67	22.42	23.14	23.61
8H	4H	21.61	22.42	22.07	22.86	23.33	21.86	22.67	22.32	23.11	23.58
	6H	21.93	22.60	22.42	23.09	23.56	22.09	22.76	22.58	23.25	23.72
	8H	21.99	22.59	22.50	23.09	23.58	22.14	22.74	22.65	23.25	23.73
	12H	22.02	22.54	22.53	23.04	23.60	22.18	22.71	22.69	23.20	23.77
12H	4H	21.60	22.33	22.08	22.80	23.27	21.85	22.58	22.33	23.05	23.52
	6H	21.92	22.52	22.43	23.02	23.51	22.08	22.68	22.59	23.19	23.67
	8H	22.01	22.54	22.52	23.03	23.59	22.16	22.69	22.67	23.18	23.74