

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: P1499482

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499482
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-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

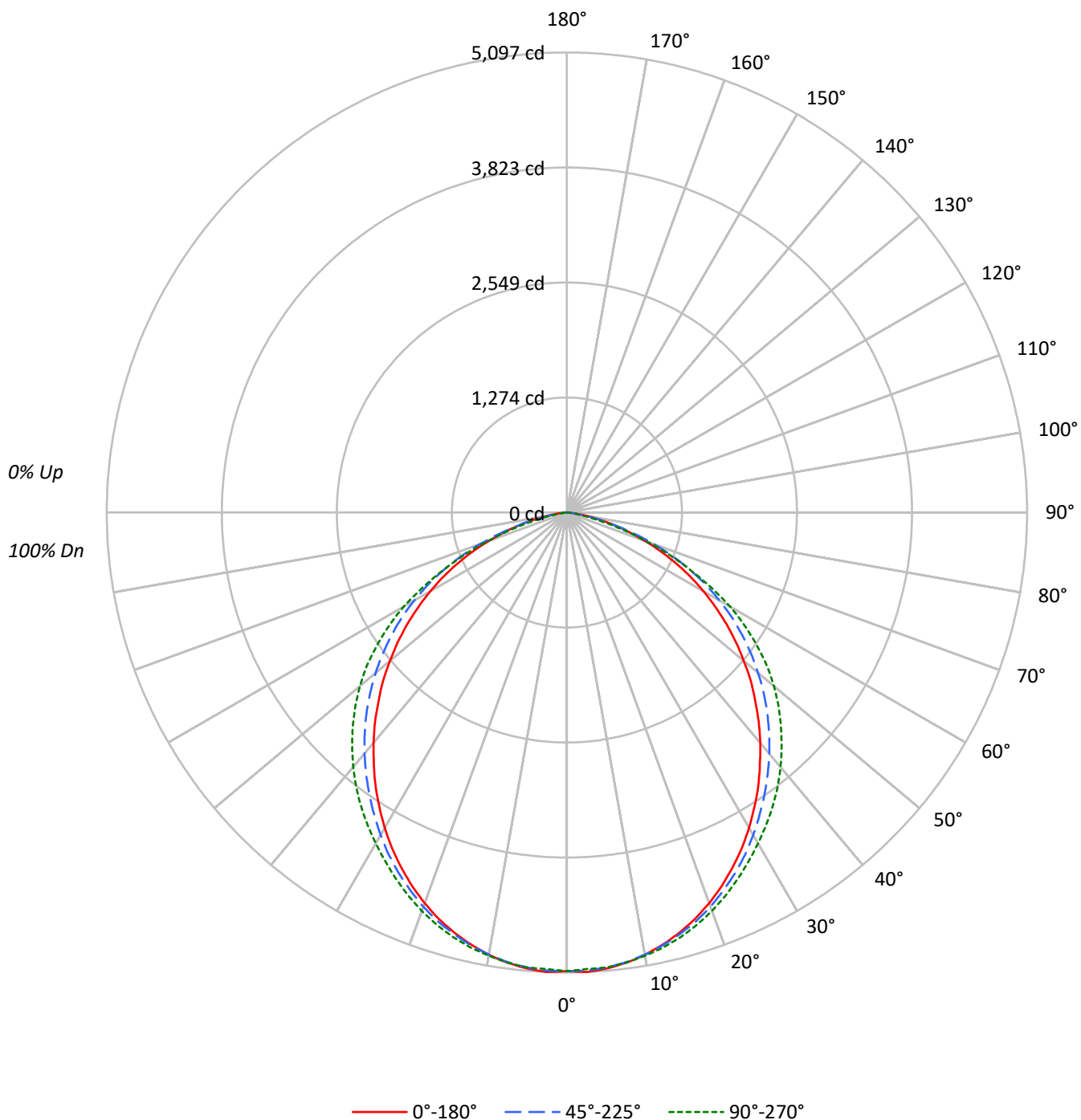
Lumens per Lamp: N/A
Luminaire Lumens: 12876.0 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132.9
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	64	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	65	59	55	55	55	53
5	78	65	56	50	76	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6835	6835	6835
5°	6850	6836	6833
10°	6800	6797	6813
15°	6713	6735	6784
20°	6596	6657	6726
25°	6443	6546	6649
30°	6269	6411	6579
35°	6072	6265	6529
40°	5851	6123	6464
45°	5613	5972	6381
50°	5352	5788	6267
55°	5065	5563	6026
60°	4700	5257	5623
65°	4245	4794	4816
70°	3623	4025	3743
75°	2845	2937	2302
80°	1857	1511	891
85°	889	597	472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6381 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.9	3.7
10°-20°	1362.4	10.6
20°-30°	2026.2	15.7
30°-40°	2387.7	18.5
40°-50°	2420.9	18.8
50°-60°	2109.5	16.4
60°-70°	1442.7	11.2
70°-80°	579.5	4.5
80°-90°	67.2	0.5
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°	3868.5	30.0
0°-40°	6256.2	48.6
0°-60°	10786.6	83.8
0°-90°	12876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12876.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5080	5080	5080	5080	5080	
5°	5072	5041	5061	5056	5059	481
15°	4819	4798	4835	4855	4870	1358
25°	4340	4341	4409	4441	4479	1998
35°	3696	3713	3814	3908	3975	2309
45°	2950	2989	3139	3280	3354	2277
55°	2159	2205	2372	2521	2569	1927
65°	1333	1393	1506	1518	1513	1318
75°	547	584	565	485	443	588
85°	58	52	39	34	31	89
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5080.3	5080.3	5080.3	5080.3	5080.3
2.5°	5096.6	5062.6	5080.3	5076.6	5063.7
5°	5072.0	5041.3	5061.3	5055.6	5059.0
7.5°	5032.0	5003.9	5025.0	5023.9	5029.6
10°	4976.9	4948.6	4974.6	4979.3	4986.3
12.5°	4904.0	4880.6	4912.3	4921.6	4935.7
15°	4819.3	4798.3	4834.7	4854.7	4870.0
17.5°	4720.7	4703.0	4750.0	4769.0	4790.0
20°	4606.7	4594.0	4649.0	4666.7	4697.3
22.5°	4480.0	4473.0	4530.4	4557.4	4592.7
25°	4340.1	4341.4	4409.4	4441.3	4478.7
27.5°	4193.4	4195.7	4273.4	4317.8	4357.7
30°	4034.8	4041.8	4126.4	4181.7	4234.4
32.5°	3866.8	3880.8	3972.5	4047.8	4106.4
35°	3696.5	3712.8	3814.1	3907.8	3974.8
37.5°	3512.2	3539.2	3653.1	3764.8	3833.8
40°	3331.2	3358.2	3486.2	3609.5	3680.1
42.5°	3144.5	3178.5	3314.8	3452.2	3520.2
45°	2949.6	2989.3	3138.6	3279.5	3353.5
47.5°	2762.6	2797.9	2955.3	3102.2	3178.5
50°	2557.0	2601.7	2765.0	2918.9	2994.2
52.5°	2361.0	2402.0	2570.0	2727.6	2795.6
55°	2159.0	2204.7	2371.6	2520.7	2569.0
57.5°	1952.1	2007.4	2168.4	2293.0	2338.7
60°	1746.7	1801.8	1953.4	2055.7	2089.7
62.5°	1542.1	1601.1	1733.8	1801.8	1801.8
65°	1333.2	1393.1	1505.8	1517.5	1512.8
67.5°	1124.2	1184.1	1269.8	1248.5	1234.5
70°	920.9	972.5	1023.2	984.2	951.5
72.5°	723.6	772.9	781.2	724.9	683.6
75°	547.3	583.9	564.9	485.2	442.9
77.5°	381.6	402.9	363.0	281.9	247.9
80°	239.6	249.0	195.0	137.3	115.0
82.5°	129.3	130.3	84.6	69.3	64.6
85°	57.6	51.7	38.7	34.0	30.6
87.5°	20.0	17.7	14.0	13.0	10.6
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	17.60	19.19	17.97	19.50	19.82	18.59	20.17	18.95	20.49	20.80
	3H	19.01	20.44	19.39	20.76	21.12	19.79	21.21	20.17	21.54	21.90
	4H	19.41	20.74	19.81	21.09	21.47	20.01	21.34	20.41	21.69	22.07
	6H	19.58	20.82	19.99	21.18	21.57	20.03	21.26	20.44	21.62	22.01
	8H	19.60	20.77	20.02	21.16	21.56	20.00	21.18	20.43	21.57	21.97
	12H	19.59	20.71	20.02	21.09	21.52	19.98	21.10	20.41	21.48	21.91
4H	2H	18.28	19.61	18.67	19.96	20.33	19.07	20.40	19.46	20.75	21.12
	3H	19.84	20.95	20.25	21.35	21.75	20.44	21.54	20.85	21.94	22.34
	4H	20.32	21.31	20.75	21.73	22.17	20.71	21.70	21.14	22.12	22.55
	6H	20.56	21.42	21.02	21.86	22.32	20.76	21.62	21.21	22.06	22.52
	8H	20.58	21.39	21.05	21.83	22.30	20.73	21.54	21.20	21.98	22.45
	12H	20.58	21.30	21.06	21.78	22.25	20.71	21.43	21.20	21.91	22.38
8H	4H	20.47	21.27	20.93	21.71	22.18	20.83	21.63	21.29	22.07	22.54
	6H	20.74	21.40	21.24	21.89	22.37	20.89	21.55	21.38	22.04	22.51
	8H	20.78	21.37	21.29	21.88	22.37	20.86	21.46	21.38	21.96	22.45
	12H	20.80	21.32	21.30	21.81	22.37	20.85	21.37	21.36	21.86	22.43
12H	4H	20.45	21.17	20.93	21.64	22.11	20.82	21.53	21.30	22.01	22.48
	6H	20.71	21.30	21.22	21.81	22.30	20.86	21.46	21.38	21.96	22.45
	8H	20.78	21.30	21.29	21.79	22.35	20.86	21.39	21.37	21.88	22.44