

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: P1498912

Luminaire Tested: MAE-G-4-120-1HI-HI-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1HI-HI-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

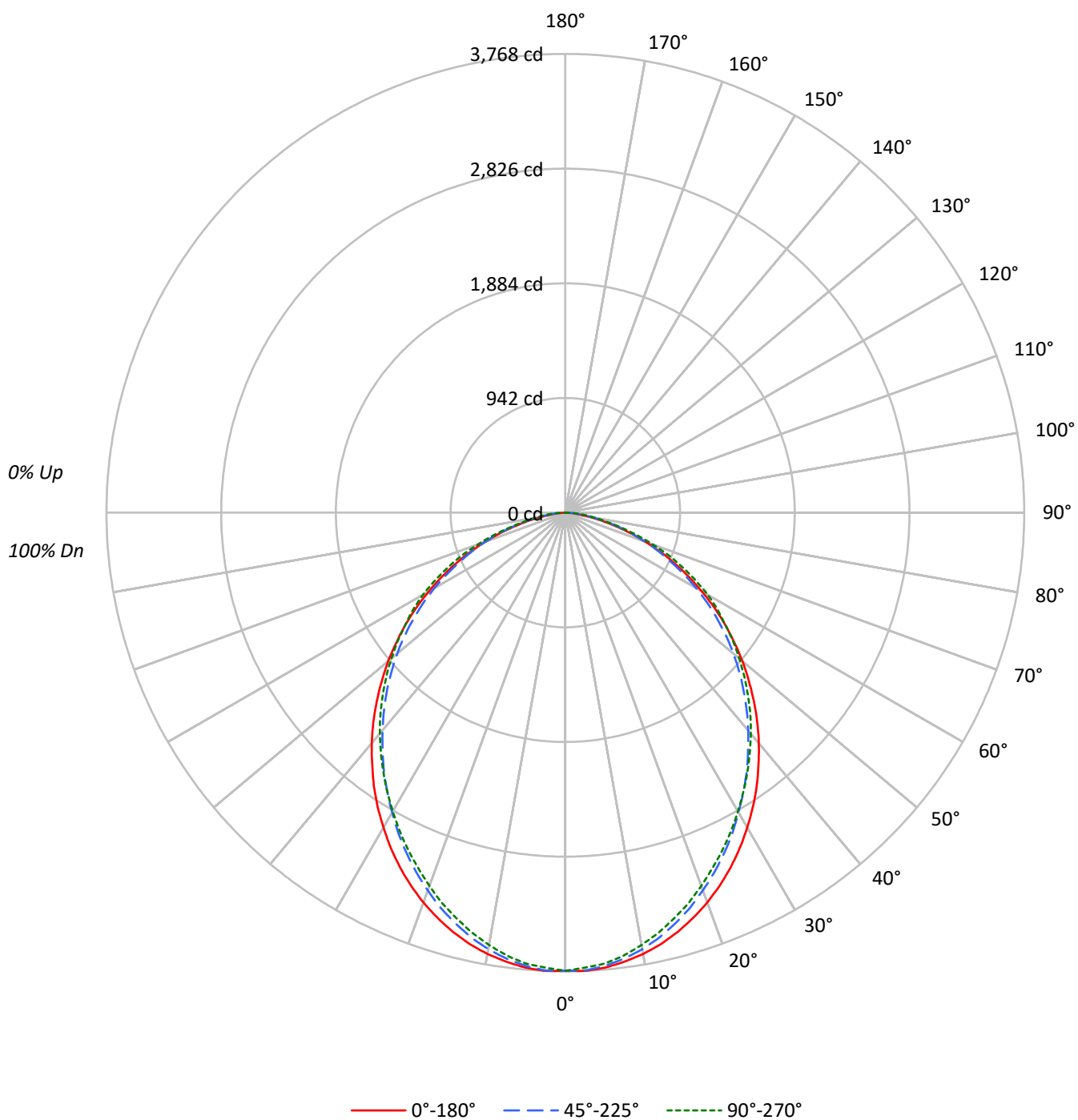
Lumens per Lamp: N/A
Luminaire Lumens: 9007.0 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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: P1498912

CATALOG NUMBER: MAE-G-4-120-1HI-HI-30-90-VRDCPH

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	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	82	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	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	45	39	51	44	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5064	5064	5064
5°	5066	5047	5022
10°	5029	4974	4927
15°	4966	4864	4806
20°	4879	4728	4672
25°	4770	4581	4536
30°	4640	4418	4402
35°	4502	4264	4278
40°	4342	4102	4162
45°	4164	3941	4033
50°	3974	3770	3900
55°	3754	3571	3759
60°	3483	3342	3634
65°	3170	3045	3379
70°	2751	2738	3011
75°	2195	2330	2473
80°	1519	1800	1962
85°	849	1371	1785

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4164 cd/sqm

TEST NUMBER: P1498912

CATALOG NUMBER: MAE-G-4-120-1HI-HI-30-90-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.3	3.9
10°-20°	984.9	10.9
20°-30°	1430.7	15.9
30°-40°	1646.5	18.3
40°-50°	1629.7	18.1
50°-60°	1395.4	15.5
60°-70°	984.2	10.9
70°-80°	478.1	5.3
80°-90°	104.1	1.2
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°	2768.9	30.7
0°-40°	4415.5	49.0
0°-60°	7440.6	82.6
0°-90°	9007.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9007.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3764	3764	3764	3764	3764	
5°	3751	3748	3736	3710	3718	356
15°	3565	3545	3492	3445	3450	1004
25°	3213	3166	3086	3046	3055	1479
35°	2741	2676	2596	2586	2604	1712
45°	2188	2129	2071	2097	2120	1688
55°	1600	1546	1522	1568	1603	1429
65°	996	953	956	1029	1061	985
75°	422	404	448	475	476	456
85°	55	67	89	108	116	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3763.8	3763.8	3763.8	3763.8	3763.8
2.5°	3768.2	3771.3	3763.8	3735.7	3740.5
5°	3750.9	3747.7	3736.5	3710.1	3718.4
7.5°	3721.0	3715.8	3695.7	3664.4	3669.8
10°	3681.2	3670.9	3640.9	3601.8	3606.4
12.5°	3629.6	3615.9	3573.7	3529.4	3534.2
15°	3565.2	3545.4	3491.6	3445.0	3450.0
17.5°	3491.2	3468.5	3403.5	3353.0	3363.7
20°	3407.3	3376.7	3301.9	3254.0	3263.2
22.5°	3315.0	3276.5	3198.0	3151.8	3159.0
25°	3213.3	3166.5	3086.0	3046.5	3055.2
27.5°	3103.7	3052.2	2969.5	2933.4	2946.7
30°	2986.8	2931.3	2843.7	2818.9	2833.3
32.5°	2866.7	2807.8	2721.3	2705.4	2719.8
35°	2740.6	2676.2	2595.9	2586.2	2604.4
37.5°	2605.6	2543.8	2464.3	2470.5	2487.6
40°	2471.9	2408.0	2335.3	2349.1	2369.6
42.5°	2333.0	2271.2	2204.9	2224.1	2248.1
45°	2188.2	2129.3	2071.3	2096.8	2119.7
47.5°	2042.8	1984.5	1937.4	1967.3	1994.4
50°	1898.5	1842.5	1801.3	1837.4	1863.1
52.5°	1747.0	1693.7	1664.2	1702.3	1735.3
55°	1600.3	1546.0	1522.3	1567.6	1602.6
57.5°	1448.6	1404.0	1383.5	1436.9	1480.5
60°	1294.5	1250.6	1241.8	1309.4	1350.6
62.5°	1144.0	1100.9	1097.0	1176.0	1205.7
65°	995.7	953.2	956.5	1029.3	1061.3
67.5°	848.9	809.9	827.8	897.7	919.0
70°	699.3	664.4	695.9	754.8	765.5
72.5°	558.7	529.4	572.0	613.4	615.9
75°	422.3	404.2	448.2	475.4	475.7
77.5°	302.2	292.7	333.3	351.9	353.0
80°	196.0	200.3	232.3	246.8	253.2
82.5°	114.2	124.3	149.3	174.1	180.7
85°	55.0	67.1	88.8	107.8	115.6
87.5°	19.0	27.1	37.1	41.1	40.0
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	16.43	18.02	16.80	18.33	18.65	16.60	18.19	16.97	18.50	18.81
	3H	17.88	19.31	18.26	19.63	20.00	18.25	19.67	18.63	20.00	20.36
	4H	18.31	19.65	18.71	20.00	20.37	18.75	20.09	19.15	20.44	20.81
	6H	18.53	19.77	18.94	20.13	20.53	19.05	20.28	19.46	20.65	21.04
	8H	18.57	19.75	18.99	20.14	20.53	19.13	20.31	19.56	20.70	21.10
	12H	18.57	19.70	19.00	20.08	20.51	19.19	20.32	19.62	20.71	21.14
4H	2H	16.95	18.29	17.35	18.64	19.01	17.09	18.43	17.49	18.77	19.15
	3H	18.58	19.70	18.99	20.10	20.50	18.94	20.05	19.35	20.45	20.85
	4H	19.10	20.10	19.53	20.52	20.95	19.55	20.56	19.98	20.97	21.41
	6H	19.40	20.27	19.85	20.71	21.17	19.95	20.82	20.41	21.27	21.72
	8H	19.45	20.27	19.91	20.71	21.18	20.07	20.89	20.53	21.33	21.80
	12H	19.48	20.21	19.96	20.68	21.15	20.17	20.90	20.65	21.38	21.85
8H	4H	19.32	20.14	19.78	20.58	21.05	19.73	20.55	20.19	20.99	21.46
	6H	19.69	20.36	20.18	20.85	21.33	20.21	20.89	20.71	21.38	21.85
	8H	19.78	20.38	20.29	20.89	21.38	20.39	20.99	20.90	21.50	21.99
	12H	19.83	20.36	20.34	20.86	21.42	20.54	21.08	21.05	21.57	22.13
12H	4H	19.33	20.06	19.81	20.54	21.01	19.73	20.46	20.21	20.94	21.41
	6H	19.71	20.32	20.22	20.82	21.31	20.22	20.82	20.73	21.33	21.82
	8H	19.84	20.37	20.35	20.86	21.43	20.44	20.97	20.95	21.46	22.03