

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: P1499464

Luminaire Tested: MAE-G-4-120-3HI-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499464
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-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

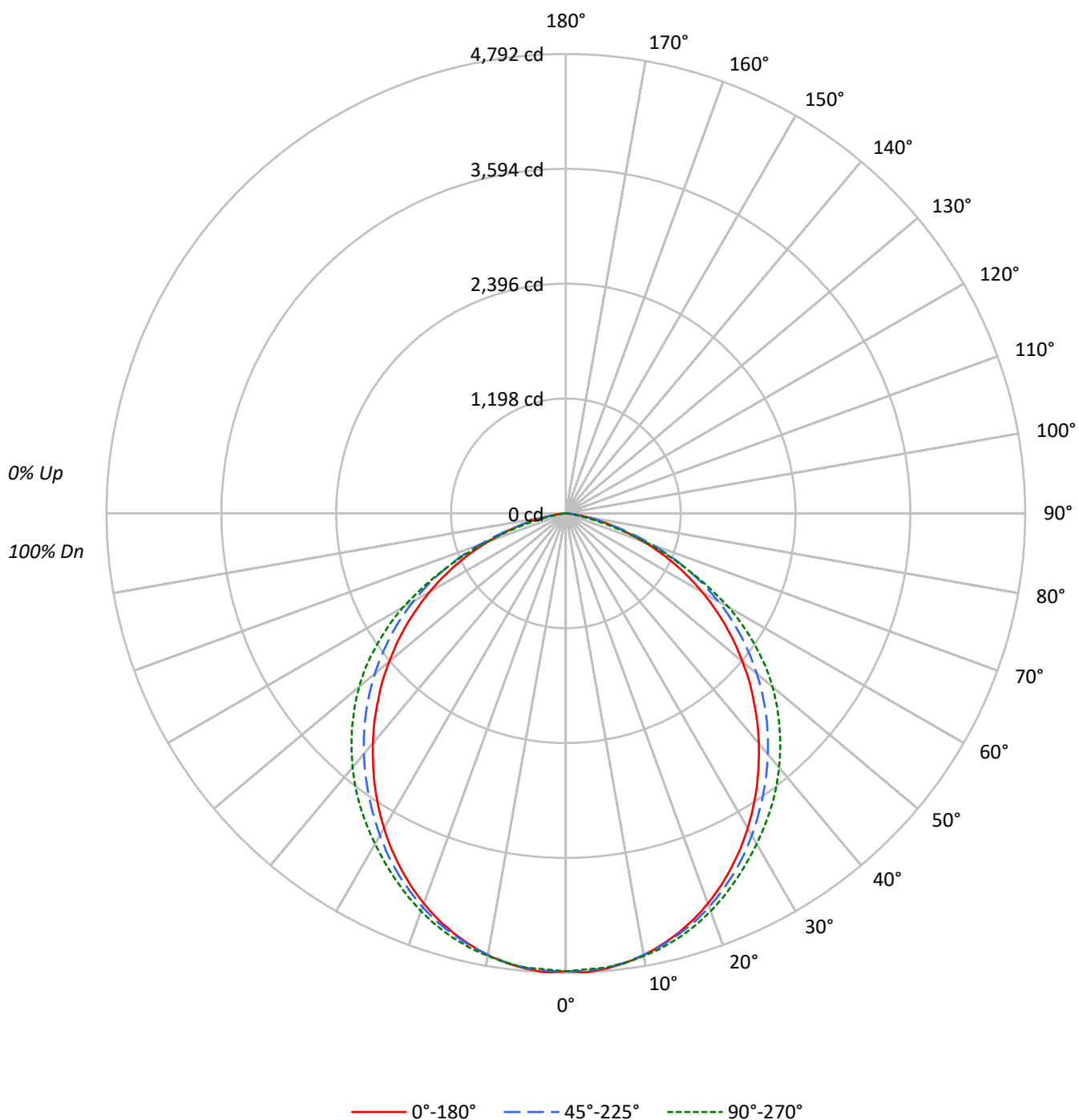
Lumens per Lamp: N/A
Luminaire Lumens: 12107.0 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	102	98	107	103	100	96	99	96	93		95	93	91		92
2	100	93	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		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
5	78	65	56	50	76	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	36	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6427	6427	6427
5°	6441	6428	6425
10°	6394	6391	6406
15°	6312	6332	6378
20°	6202	6259	6324
25°	6058	6155	6252
30°	5894	6028	6186
35°	5709	5891	6139
40°	5501	5758	6078
45°	5277	5615	6000
50°	5033	5442	5893
55°	4762	5231	5666
60°	4420	4943	5288
65°	3991	4508	4529
70°	3406	3785	3520
75°	2675	2761	2165
80°	1746	1420	838
85°	837	562	445

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6000 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.2	3.7
10°-20°	1281.0	10.6
20°-30°	1905.2	15.7
30°-40°	2245.1	18.5
40°-50°	2276.3	18.8
50°-60°	1983.5	16.4
60°-70°	1356.6	11.2
70°-80°	544.9	4.5
80°-90°	63.2	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°	3637.5	30.0
0°-40°	5882.6	48.6
0°-60°	10142.4	83.8
0°-90°	12107.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12107.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4777	4777	4777	4777	4777	
5°	4769	4740	4759	4754	4757	452
15°	4532	4512	4546	4565	4579	1277
25°	4081	4082	4146	4176	4211	1879
35°	3476	3491	3586	3674	3737	2171
45°	2773	2811	2951	3084	3153	2141
55°	2030	2073	2230	2370	2416	1812
65°	1254	1310	1416	1427	1422	1239
75°	515	549	531	456	416	553
85°	54	49	36	32	29	84
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4776.9	4776.9	4776.9	4776.9	4776.9
2.5°	4792.2	4760.3	4776.9	4773.4	4761.2
5°	4769.0	4740.2	4759.0	4753.7	4756.8
7.5°	4731.4	4705.1	4724.9	4723.9	4729.3
10°	4679.7	4653.1	4677.5	4681.9	4688.5
12.5°	4611.1	4589.1	4618.9	4627.7	4640.9
15°	4531.5	4511.7	4545.9	4564.7	4579.1
17.5°	4438.8	4422.2	4466.3	4484.2	4503.9
20°	4331.6	4319.6	4371.4	4388.0	4416.8
22.5°	4212.5	4205.9	4259.8	4285.2	4318.4
25°	4080.9	4082.1	4146.1	4176.1	4211.2
27.5°	3943.0	3945.2	4018.1	4059.9	4097.5
30°	3793.8	3800.4	3880.0	3932.0	3981.5
32.5°	3635.9	3649.0	3735.2	3806.0	3861.2
35°	3475.7	3491.1	3586.3	3674.4	3737.4
37.5°	3302.4	3327.8	3435.0	3539.9	3604.9
40°	3132.2	3157.6	3278.0	3393.9	3460.3
42.5°	2956.7	2988.7	3116.9	3246.0	3310.0
45°	2773.4	2810.7	2951.1	3083.7	3153.2
47.5°	2597.6	2630.8	2778.8	2916.9	2988.7
50°	2404.3	2446.3	2599.8	2744.6	2815.4
52.5°	2220.0	2258.6	2416.5	2564.7	2628.6
55°	2030.1	2073.0	2230.0	2370.1	2415.5
57.5°	1835.5	1887.5	2038.9	2156.0	2199.0
60°	1642.4	1694.2	1836.7	1932.9	1964.9
62.5°	1450.0	1505.5	1630.2	1694.2	1694.2
65°	1253.5	1309.9	1415.9	1426.9	1422.5
67.5°	1057.0	1113.4	1194.0	1174.0	1160.8
70°	865.9	914.5	962.1	925.4	894.7
72.5°	680.4	726.7	734.5	681.6	642.8
75°	514.6	549.0	531.2	456.3	416.5
77.5°	358.9	378.9	341.3	265.1	233.1
80°	225.3	234.1	183.3	129.1	108.1
82.5°	121.6	122.5	79.6	65.2	60.8
85°	54.2	48.6	36.4	32.0	28.8
87.5°	18.8	16.6	13.2	12.2	10.0
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	17.39	18.97	17.76	19.29	19.60	18.37	19.96	18.74	20.27	20.59
	3H	18.80	20.22	19.18	20.55	20.91	19.58	21.00	19.96	21.33	21.69
	4H	19.19	20.53	19.59	20.88	21.25	19.79	21.13	20.19	21.48	21.85
	6H	19.37	20.60	19.78	20.97	21.36	19.81	21.04	20.22	21.41	21.80
	8H	19.38	20.56	19.81	20.95	21.35	19.79	20.96	20.21	21.35	21.75
	12H	19.37	20.50	19.80	20.88	21.31	19.76	20.89	20.19	21.27	21.70
4H	2H	18.06	19.40	18.46	19.74	20.12	18.85	20.19	19.25	20.53	20.91
	3H	19.63	20.74	20.04	21.13	21.53	20.22	21.33	20.63	21.73	22.13
	4H	20.11	21.10	20.54	21.51	21.95	20.49	21.49	20.93	21.90	22.34
	6H	20.35	21.21	20.80	21.65	22.11	20.54	21.41	21.00	21.85	22.31
	8H	20.37	21.17	20.83	21.62	22.08	20.52	21.33	20.98	21.77	22.24
	12H	20.37	21.09	20.85	21.57	22.04	20.50	21.22	20.98	21.70	22.17
8H	4H	20.25	21.06	20.71	21.50	21.97	20.61	21.42	21.07	21.86	22.33
	6H	20.53	21.19	21.02	21.68	22.16	20.67	21.33	21.17	21.82	22.30
	8H	20.57	21.16	21.08	21.67	22.16	20.65	21.24	21.16	21.75	22.24
	12H	20.58	21.10	21.09	21.59	22.16	20.63	21.16	21.14	21.65	22.21
12H	4H	20.23	20.95	20.72	21.43	21.90	20.60	21.32	21.08	21.80	22.27
	6H	20.50	21.09	21.01	21.60	22.09	20.65	21.24	21.16	21.75	22.24
	8H	20.56	21.08	21.07	21.58	22.14	20.65	21.17	21.16	21.66	22.23