

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: P1499653

Luminaire Tested: MAE-G-4-120-3LO-STD-50-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499653
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-4-120-3LO-STD-50-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

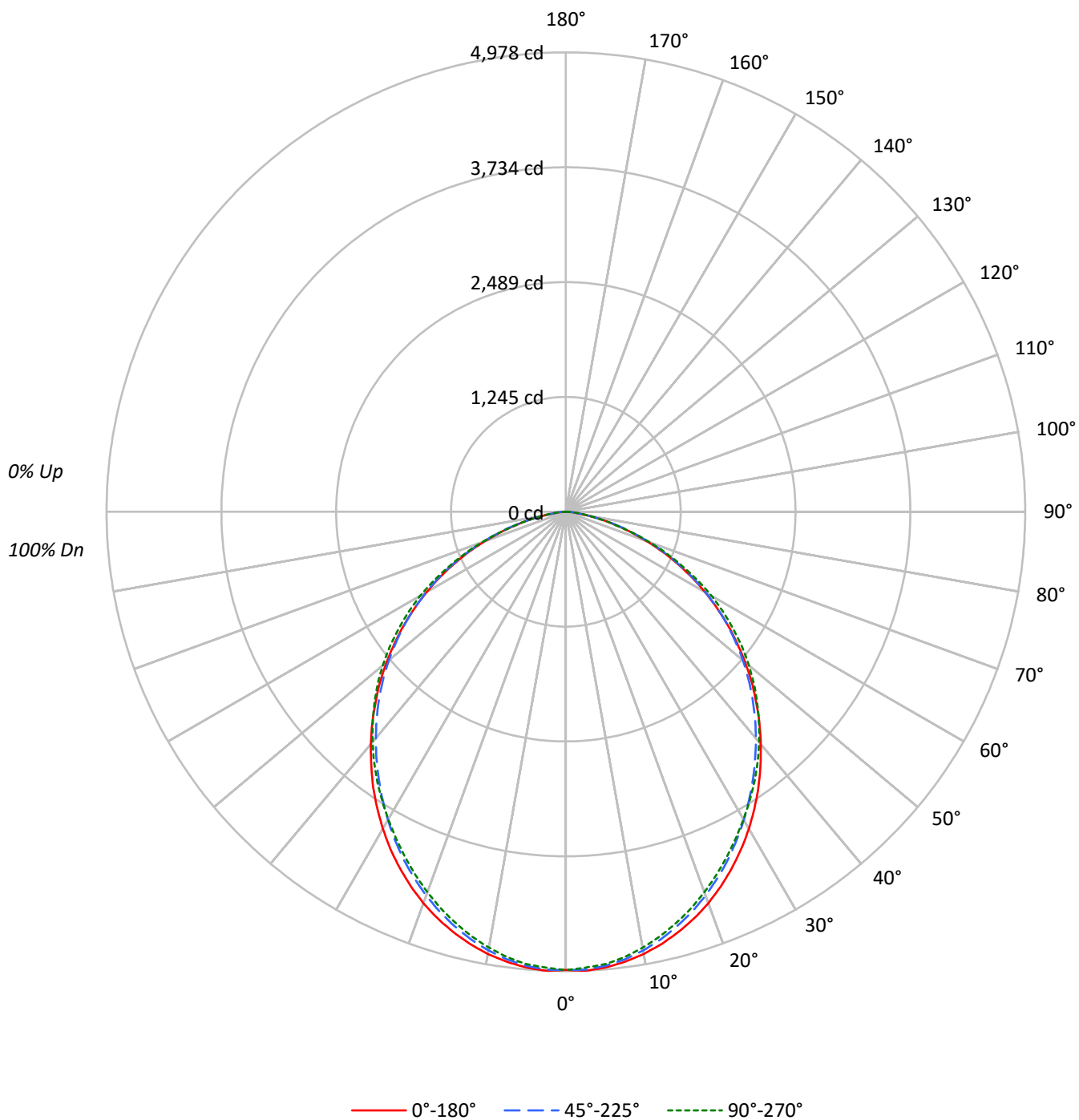
Lumens per Lamp: N/A
Luminaire Lumens: 12149.0 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 140.5
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: P1499653

CATALOG NUMBER: MAE-G-4-120-3LO-STD-50-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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85		
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	53		
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6682	6682	6682
5°	6694	6671	6645
10°	6648	6595	6553
15°	6568	6478	6427
20°	6462	6336	6282
25°	6322	6173	6125
30°	6162	5991	5979
35°	5980	5806	5854
40°	5774	5626	5724
45°	5550	5443	5582
50°	5306	5240	5418
55°	5029	5005	5192
60°	4687	4709	4906
65°	4263	4317	4429
70°	3678	3778	3796
75°	2928	3049	2932
80°	1982	2077	2026
85°	1031	1369	1714

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5582 cd/sqm

TEST NUMBER: P1499653

CATALOG NUMBER: MAE-G-4-120-3LO-STD-50-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.3	3.8
10°-20°	1310.3	10.8
20°-30°	1919.4	15.8
30°-40°	2229.1	18.3
40°-50°	2228.7	18.3
50°-60°	1922.6	15.8
60°-70°	1342.7	11.1
70°-80°	615.9	5.1
80°-90°	113.0	0.9
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°	3697.0	30.4
0°-40°	5926.1	48.8
0°-60°	10077.4	82.9
0°-90°	12149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4966	4966	4966	4966	4966	
5°	4956	4937	4939	4913	4920	470
15°	4715	4683	4651	4608	4614	1329
25°	4258	4213	4158	4113	4126	1961
35°	3641	3583	3535	3536	3564	2275
45°	2917	2870	2861	2903	2934	2250
55°	2144	2107	2134	2192	2214	1914
65°	1339	1323	1356	1384	1391	1323
75°	563	562	586	576	564	605
85°	67	74	89	104	111	98
90°	0	0	0	0	0	

TEST NUMBER: P1499653

CATALOG NUMBER: MAE-G-4-120-3LO-STD-50-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4966.3	4966.3	4966.3	4966.3	4966.3
2.5°	4978.1	4960.1	4966.3	4945.7	4944.0
5°	4956.0	4936.6	4939.1	4912.7	4919.9
7.5°	4917.7	4896.1	4891.5	4861.7	4867.9
10°	4865.7	4839.6	4827.4	4792.4	4796.7
12.5°	4796.7	4768.5	4747.1	4706.4	4713.2
15°	4715.3	4683.2	4650.8	4608.5	4614.2
17.5°	4621.0	4584.6	4544.9	4496.6	4506.7
20°	4512.9	4472.6	4425.3	4374.5	4387.1
22.5°	4391.8	4348.0	4294.9	4247.4	4259.1
25°	4258.4	4212.6	4158.2	4113.3	4125.7
27.5°	4118.0	4066.8	4010.4	3974.0	3987.9
30°	3966.1	3912.3	3855.8	3827.9	3848.5
32.5°	3805.7	3751.2	3698.0	3684.0	3708.2
35°	3640.6	3582.8	3534.7	3535.5	3564.0
37.5°	3463.4	3412.3	3370.8	3386.0	3414.9
40°	3287.4	3234.3	3203.2	3228.2	3259.0
42.5°	3105.2	3056.3	3033.9	3070.1	3098.3
45°	2916.9	2870.0	2860.7	2902.6	2933.5
47.5°	2731.1	2684.0	2685.0	2732.3	2766.4
50°	2534.8	2493.4	2503.1	2558.2	2588.3
52.5°	2338.2	2298.9	2319.5	2378.6	2408.6
55°	2143.9	2106.6	2133.8	2191.8	2213.5
57.5°	1942.4	1915.5	1945.7	1997.9	2021.4
60°	1741.8	1717.2	1749.9	1800.7	1823.2
62.5°	1540.8	1521.3	1554.6	1598.6	1608.3
65°	1338.9	1322.6	1356.0	1384.4	1391.2
67.5°	1134.4	1125.1	1158.8	1178.4	1180.4
70°	934.9	924.2	960.3	971.7	965.0
72.5°	741.0	737.5	765.6	769.1	756.3
75°	563.3	562.0	586.5	575.7	564.0
77.5°	398.4	399.1	416.0	402.8	397.0
80°	255.8	263.3	268.1	265.6	261.5
82.5°	143.8	153.1	157.0	173.1	180.0
85°	66.8	73.6	88.7	104.2	111.0
87.5°	22.7	28.2	36.7	39.6	37.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1499653

CATALOG NUMBER: MAE-G-4-120-3LO-STD-50-VRDCPH

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	17.53	19.12	17.90	19.43	19.74	17.82	19.41	18.19	19.72	20.04
	3H	18.99	20.41	19.36	20.74	21.10	19.28	20.70	19.66	21.03	21.39
	4H	19.41	20.75	19.81	21.10	21.47	19.68	21.02	20.08	21.37	21.74
	6H	19.62	20.85	20.03	21.22	21.61	19.87	21.11	20.28	21.47	21.86
	8H	19.64	20.82	20.07	21.21	21.61	19.91	21.09	20.33	21.48	21.88
	12H	19.64	20.77	20.07	21.15	21.58	19.93	21.06	20.36	21.44	21.87
4H	2H	18.10	19.44	18.50	19.79	20.17	18.34	19.68	18.74	20.03	20.40
	3H	19.73	20.85	20.14	21.25	21.65	19.98	21.10	20.39	21.49	21.89
	4H	20.24	21.24	20.67	21.66	22.10	20.47	21.48	20.91	21.89	22.33
	6H	20.52	21.40	20.98	21.84	22.30	20.74	21.61	21.19	22.05	22.51
	8H	20.57	21.38	21.03	21.82	22.29	20.80	21.61	21.26	22.06	22.52
	12H	20.58	21.31	21.06	21.78	22.26	20.84	21.57	21.32	22.05	22.52
8H	4H	20.43	21.25	20.90	21.69	22.16	20.64	21.46	21.11	21.90	22.37
	6H	20.77	21.44	21.27	21.93	22.41	20.96	21.63	21.46	22.12	22.60
	8H	20.84	21.44	21.35	21.95	22.44	21.06	21.66	21.57	22.16	22.65
	12H	20.87	21.41	21.38	21.90	22.46	21.14	21.67	21.65	22.16	22.72
12H	4H	20.43	21.16	20.91	21.64	22.11	20.64	21.37	21.12	21.84	22.31
	6H	20.77	21.37	21.28	21.88	22.37	20.96	21.56	21.47	22.07	22.56
	8H	20.87	21.40	21.38	21.89	22.46	21.09	21.62	21.59	22.11	22.67