

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: P1499452

Luminaire Tested: MAE-G-4-120-2STD-STD-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2STD-STD-40-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

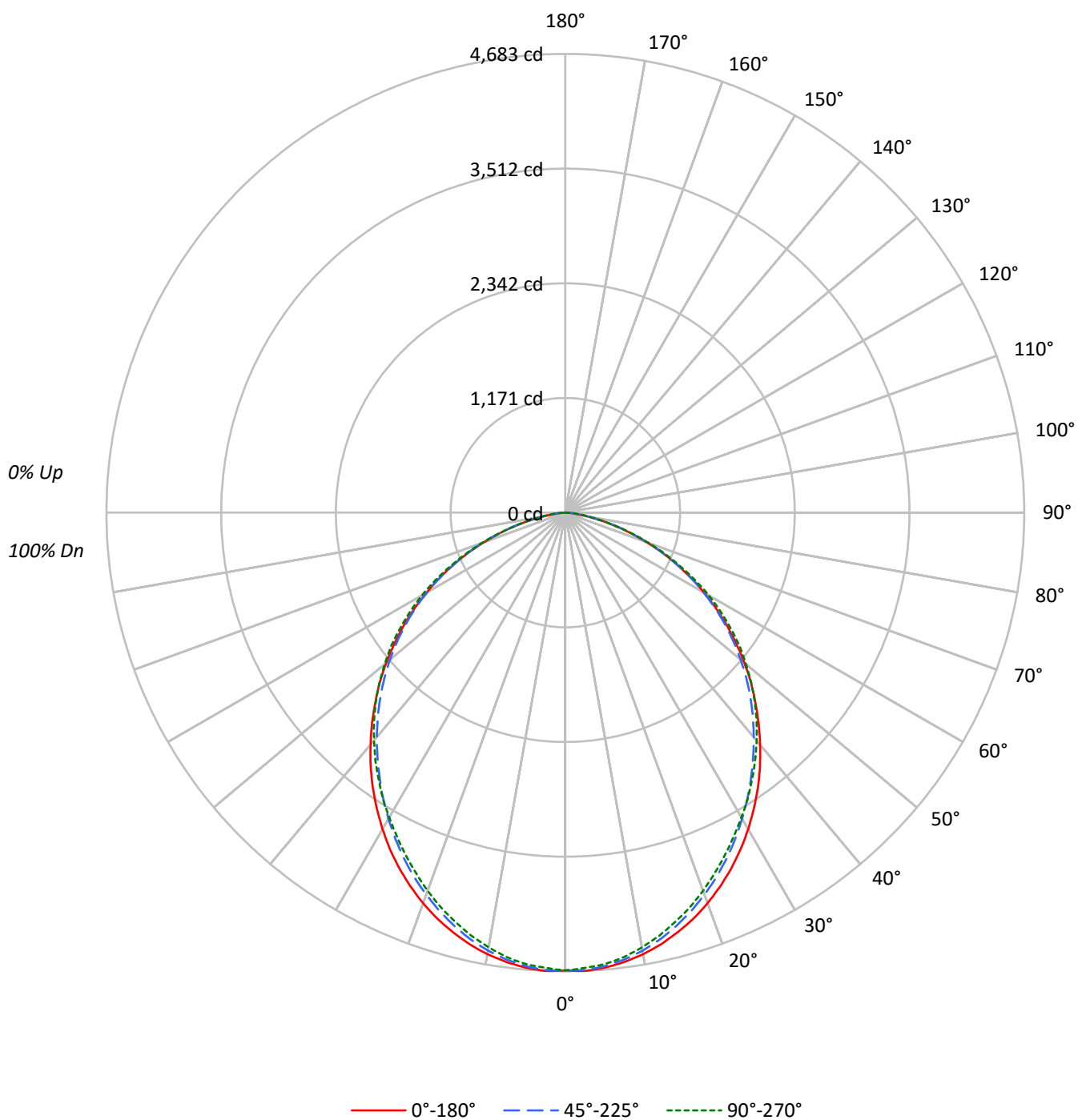
Lumens per Lamp: N/A
Luminaire Lumens: 11376.0 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.8
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: P1499452

CATALOG NUMBER: MAE-G-4-120-2STD-STD-40-90-VRDCPH

Luminous Intensity Polar Plot



TEST NUMBER: P1499452

CATALOG NUMBER: MAE-G-4-120-2STD-STD-40-90-VRDCPH

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	92	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	45	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6288	6288	6288
5°	6298	6277	6249
10°	6253	6203	6156
15°	6176	6086	6027
20°	6076	5942	5883
25°	5948	5782	5724
30°	5797	5608	5582
35°	5626	5426	5459
40°	5431	5255	5334
45°	5221	5080	5203
50°	4992	4890	5037
55°	4728	4665	4829
60°	4411	4385	4552
65°	4011	4012	4126
70°	3463	3503	3553
75°	2759	2838	2805
80°	1869	1972	1978
85°	960	1318	1681

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5221 cd/sqm

TEST NUMBER: P1499452

CATALOG NUMBER: MAE-G-4-120-2STD-STD-40-90-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.5	3.9
10°-20°	1230.9	10.8
20°-30°	1799.8	15.8
30°-40°	2087.4	18.3
40°-50°	2083.7	18.3
50°-60°	1794.9	15.8
60°-70°	1252.6	11.0
70°-80°	578.6	5.1
80°-90°	108.5	1.0
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°	3470.2	30.5
0°-40°	5557.6	48.9
0°-60°	9436.3	82.9
0°-90°	11376.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11376.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4674	4674	4674	4674	4674	
5°	4663	4646	4648	4621	4627	442
15°	4434	4404	4369	4324	4327	1250
25°	4006	3961	3895	3850	3856	1844
35°	3425	3367	3304	3302	3324	2141
45°	2744	2692	2670	2706	2734	2117
55°	2015	1976	1989	2037	2059	1800
65°	1260	1241	1260	1283	1296	1246
75°	531	525	546	541	540	571
85°	62	70	85	102	109	92
90°	0	0	0	0	0	

TEST NUMBER: P1499452

CATALOG NUMBER: MAE-G-4-120-2STD-STD-40-90-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4673.6	4673.6	4673.6	4673.6	4673.6
2.5°	4683.1	4667.8	4673.6	4653.2	4651.9
5°	4662.7	4645.8	4647.5	4620.7	4626.8
7.5°	4626.9	4607.3	4602.0	4571.7	4577.3
10°	4577.1	4553.0	4540.0	4502.7	4505.7
12.5°	4513.4	4486.1	4463.3	4420.3	4425.2
15°	4434.1	4403.5	4369.3	4324.2	4326.9
17.5°	4346.7	4313.4	4265.4	4217.5	4225.2
20°	4243.3	4206.8	4150.2	4100.4	4108.5
22.5°	4128.9	4087.3	4028.3	3978.9	3983.5
25°	4006.5	3960.7	3894.7	3849.9	3855.5
27.5°	3873.8	3822.7	3755.4	3715.4	3724.7
30°	3731.0	3677.3	3609.4	3579.7	3592.8
32.5°	3580.6	3525.7	3459.7	3444.0	3463.7
35°	3425.2	3366.6	3303.5	3301.7	3323.5
37.5°	3263.2	3205.6	3149.0	3160.5	3183.2
40°	3091.9	3037.9	2991.8	3012.4	3036.9
42.5°	2919.5	2867.6	2832.7	2862.6	2889.1
45°	2743.7	2692.1	2669.8	2706.2	2734.3
47.5°	2568.8	2516.8	2505.8	2547.8	2573.2
50°	2384.7	2338.3	2336.2	2381.7	2406.4
52.5°	2198.9	2156.0	2164.0	2212.9	2243.2
55°	2015.4	1975.6	1988.6	2037.2	2058.7
57.5°	1826.8	1795.1	1812.2	1855.5	1876.8
60°	1639.1	1610.0	1629.5	1671.0	1691.7
62.5°	1449.2	1423.9	1446.4	1481.1	1494.7
65°	1259.7	1240.7	1260.2	1282.6	1296.0
67.5°	1073.1	1055.3	1076.4	1098.0	1102.9
70°	880.3	869.1	890.5	903.3	903.1
72.5°	702.9	691.9	712.2	717.0	713.4
75°	530.8	525.0	546.0	541.4	539.6
77.5°	374.5	377.2	388.3	384.9	384.1
80°	241.2	249.6	254.5	257.0	255.3
82.5°	135.6	143.3	150.7	168.5	175.6
85°	62.2	69.8	85.4	102.0	108.9
87.5°	21.1	27.0	35.8	38.5	36.6
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1499452

CATALOG NUMBER: MAE-G-4-120-2STD-STD-40-90-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	17.31	18.90	17.68	19.21	19.53	17.54	19.12	17.90	19.44	19.75
	3H	18.78	20.20	19.16	20.53	20.89	19.01	20.43	19.38	20.76	21.12
	4H	19.20	20.54	19.60	20.89	21.27	19.42	20.76	19.82	21.11	21.48
	6H	19.41	20.65	19.82	21.01	21.41	19.63	20.87	20.04	21.23	21.62
	8H	19.44	20.62	19.86	21.01	21.41	19.67	20.85	20.10	21.24	21.64
	12H	19.44	20.57	19.87	20.95	21.38	19.70	20.83	20.13	21.21	21.64
4H	2H	17.87	19.21	18.27	19.56	19.94	18.06	19.39	18.45	19.74	20.12
	3H	19.52	20.63	19.93	21.03	21.43	19.71	20.82	20.12	21.22	21.62
	4H	20.03	21.03	20.46	21.44	21.88	20.22	21.22	20.65	21.63	22.07
	6H	20.31	21.18	20.77	21.62	22.08	20.50	21.37	20.96	21.81	22.27
	8H	20.35	21.17	20.82	21.61	22.08	20.57	21.38	21.03	21.83	22.29
	12H	20.37	21.09	20.85	21.57	22.04	20.62	21.35	21.10	21.83	22.30
8H	4H	20.21	21.03	20.68	21.47	21.94	20.39	21.20	20.85	21.64	22.11
	6H	20.56	21.23	21.05	21.72	22.19	20.73	21.40	21.23	21.89	22.37
	8H	20.63	21.23	21.14	21.73	22.22	20.83	21.44	21.35	21.94	22.43
	12H	20.66	21.19	21.17	21.68	22.25	20.93	21.46	21.43	21.95	22.51
12H	4H	20.21	20.94	20.69	21.42	21.89	20.38	21.11	20.86	21.59	22.06
	6H	20.56	21.16	21.07	21.67	22.15	20.73	21.33	21.24	21.84	22.33
	8H	20.66	21.19	21.17	21.68	22.25	20.87	21.40	21.38	21.89	22.45