

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: P1499557

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499557
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-STD-50-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

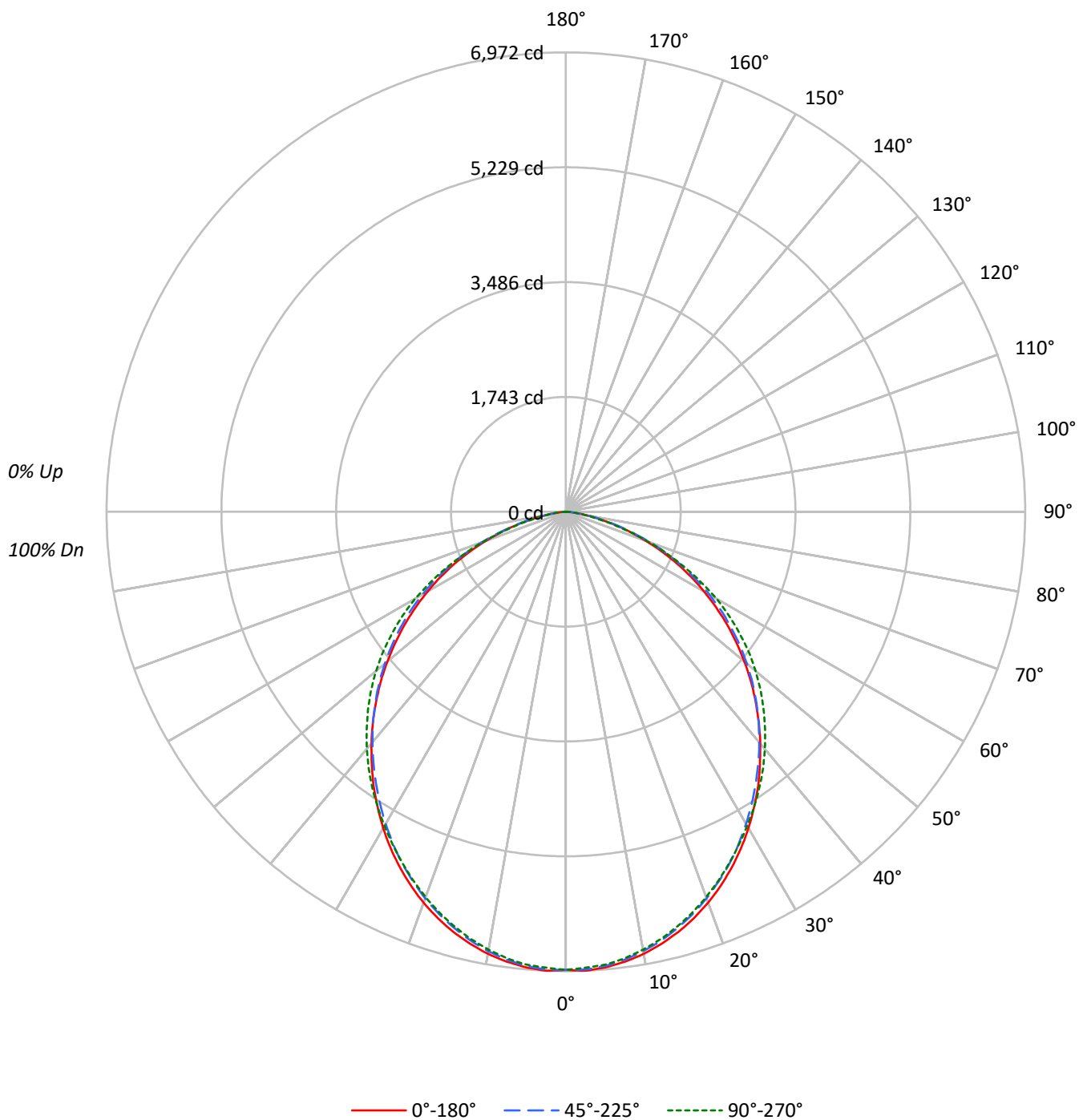
Lumens per Lamp: N/A
Luminaire Lumens: 17186.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 201.4
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	101	98	107	103	99	96	99	96	93		95	93	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	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	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9356	9356	9356
5°	9374	9345	9318
10°	9308	9254	9218
15°	9194	9113	9081
20°	9042	8940	8913
25°	8842	8734	8726
30°	8614	8498	8553
35°	8355	8257	8408
40°	8063	8022	8253
45°	7746	7780	8078
50°	7400	7504	7870
55°	7010	7182	7550
60°	6526	6765	7106
65°	5923	6193	6313
70°	5095	5353	5260
75°	4041	4198	3833
80°	2708	2669	2375
85°	1379	1602	1897

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8078 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.0	3.8
10°-20°	1843.3	10.7
20°-30°	2712.1	15.8
30°-40°	3163.2	18.4
40°-50°	3175.7	18.5
50°-60°	2747.9	16.0
60°-70°	1907.0	11.1
70°-80°	842.6	4.9
80°-90°	139.3	0.8
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°	5210.3	30.3
0°-40°	8373.5	48.7
0°-60°	14297.1	83.2
0°-90°	17186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17186.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6954	6954	6954	6954	6954	
5°	6940	6909	6919	6890	6899	658
15°	6600	6560	6542	6508	6519	1860
25°	5956	5911	5883	5851	5878	2742
35°	5087	5035	5027	5064	5119	3178
45°	4071	4039	4088	4186	4245	3141
55°	2988	2969	3062	3178	3218	2668
65°	1860	1868	1945	1978	1983	1839
75°	777	790	808	766	737	835
85°	89	94	104	118	123	133
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6953.7	6953.7	6953.7	6953.7	6953.7
2.5°	6971.8	6940.5	6953.7	6931.6	6924.9
5°	6940.2	6908.7	6919.0	6890.4	6899.0
7.5°	6886.2	6853.6	6857.3	6827.0	6835.4
10°	6812.6	6775.4	6773.4	6740.3	6747.3
12.5°	6715.1	6677.7	6668.8	6631.7	6644.0
15°	6600.5	6560.2	6542.1	6507.7	6519.3
17.5°	6467.7	6424.4	6403.0	6362.2	6380.5
20°	6315.0	6269.7	6243.9	6200.1	6224.6
22.5°	6144.3	6097.8	6067.2	6030.2	6055.7
25°	5956.2	5910.9	5883.1	5850.7	5877.7
27.5°	5758.4	5708.1	5682.1	5663.1	5692.6
30°	5544.5	5493.4	5470.0	5463.7	5505.0
32.5°	5318.4	5269.3	5252.0	5267.5	5314.6
35°	5086.7	5035.2	5026.8	5064.2	5118.9
37.5°	4837.4	4796.8	4799.8	4858.8	4914.6
40°	4590.5	4548.0	4567.0	4640.2	4698.6
42.5°	4335.3	4299.7	4330.6	4420.6	4475.4
45°	4070.8	4039.4	4088.5	4185.5	4245.3
47.5°	3811.8	3778.5	3841.1	3945.9	4009.8
50°	3535.1	3511.2	3584.8	3700.0	3759.6
52.5°	3261.8	3238.5	3324.9	3445.6	3502.2
55°	2988.5	2969.1	3061.5	3177.9	3218.5
57.5°	2706.1	2700.8	2794.0	2894.9	2936.3
60°	2425.1	2422.1	2514.1	2604.9	2640.7
62.5°	2144.0	2147.6	2232.9	2303.5	2313.2
65°	1860.5	1867.6	1945.1	1978.0	1983.0
67.5°	1574.2	1588.3	1655.5	1666.8	1663.3
70°	1295.2	1304.6	1360.6	1356.7	1337.2
72.5°	1024.1	1039.9	1071.2	1052.7	1023.7
75°	777.4	790.4	807.5	765.5	737.3
77.5°	547.7	556.7	558.0	513.0	494.0
80°	349.5	360.7	344.4	319.3	306.5
82.5°	194.4	204.1	190.1	200.2	205.2
85°	89.3	93.8	103.8	117.5	122.9
87.5°	30.5	35.2	42.2	44.7	41.3
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	18.70	20.28	19.06	20.60	20.91	19.20	20.78	19.56	21.10	21.41
	3H	20.14	21.56	20.52	21.89	22.25	20.57	22.00	20.95	22.33	22.69
	4H	20.56	21.89	20.95	22.24	22.62	20.92	22.25	21.31	22.60	22.98
	6H	20.75	21.99	21.16	22.35	22.74	21.04	22.28	21.46	22.65	23.04
	8H	20.78	21.95	21.20	22.34	22.74	21.06	22.24	21.49	22.63	23.03
	12H	20.77	21.90	21.20	22.28	22.71	21.06	22.19	21.49	22.57	23.00
4H	2H	19.30	20.64	19.70	20.98	21.36	19.70	21.04	20.10	21.39	21.76
	3H	20.91	22.02	21.32	22.42	22.82	21.26	22.37	21.67	22.77	23.17
	4H	21.41	22.41	21.84	22.83	23.26	21.68	22.68	22.11	23.09	23.53
	6H	21.68	22.55	22.14	22.99	23.45	21.87	22.74	22.33	23.18	23.64
	8H	21.72	22.53	22.18	22.97	23.44	21.90	22.71	22.36	23.16	23.62
	12H	21.73	22.45	22.21	22.93	23.40	21.92	22.65	22.40	23.12	23.59
8H	4H	21.59	22.40	22.05	22.84	23.31	21.84	22.65	22.30	23.09	23.56
	6H	21.91	22.57	22.40	23.06	23.54	22.07	22.74	22.56	23.23	23.70
	8H	21.97	22.57	22.48	23.07	23.56	22.12	22.72	22.63	23.22	23.71
	12H	22.00	22.52	22.50	23.02	23.58	22.16	22.69	22.67	23.18	23.75
12H	4H	21.58	22.31	22.06	22.78	23.25	21.83	22.55	22.31	23.03	23.50
	6H	21.90	22.49	22.41	23.00	23.49	22.06	22.66	22.57	23.16	23.65
	8H	21.99	22.52	22.50	23.01	23.57	22.14	22.67	22.65	23.16	23.72