

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: P1499472

Luminaire Tested: MAE-G-4-120-3HI-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499472
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-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

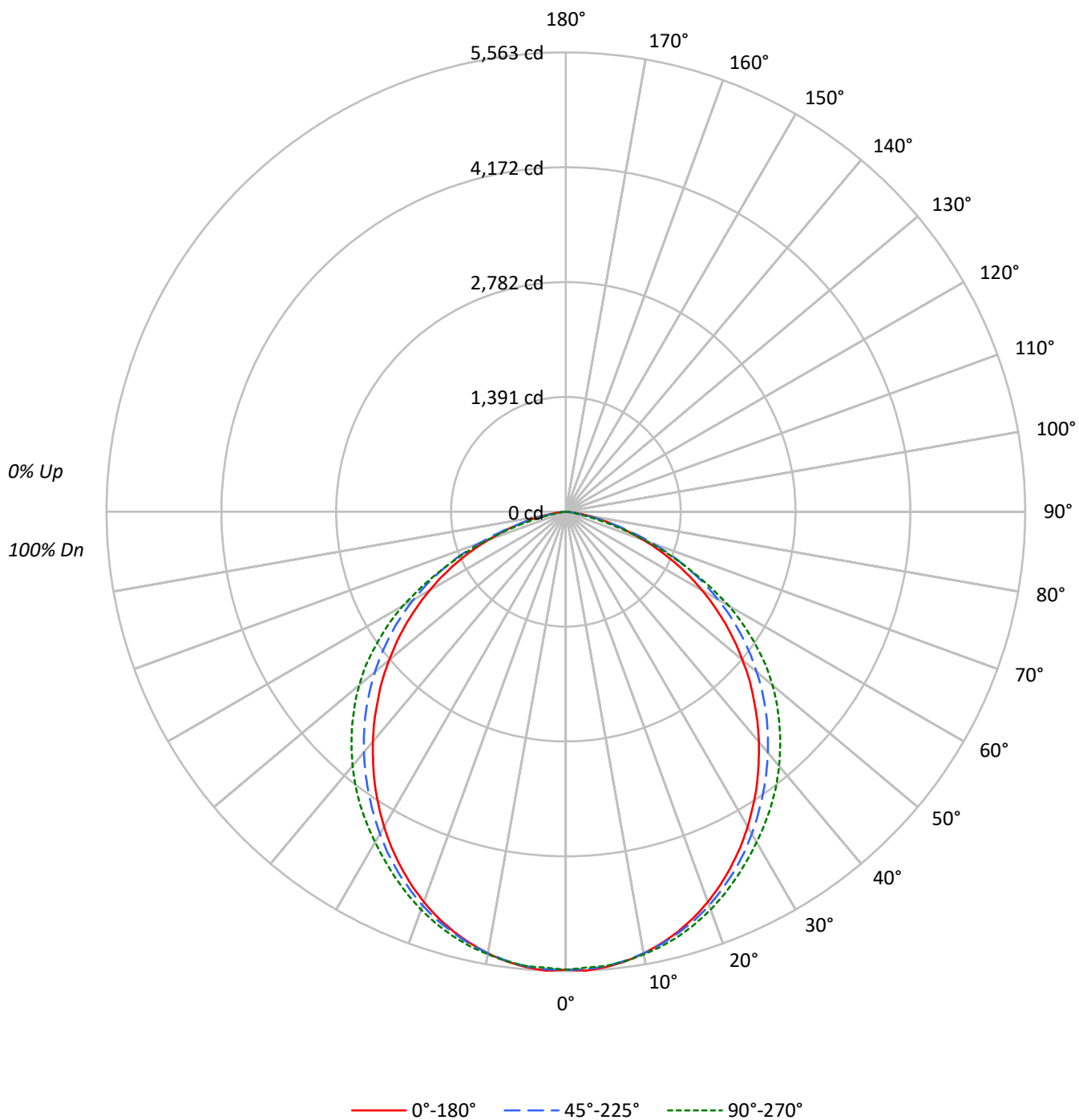
Lumens per Lamp: N/A
Luminaire Lumens: 14054.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7461	7461	7461
5°	7477	7461	7458
10°	7422	7418	7436
15°	7327	7351	7404
20°	7200	7266	7341
25°	7033	7145	7257
30°	6842	6997	7181
35°	6627	6838	7126
40°	6386	6683	7055
45°	6126	6518	6965
50°	5842	6317	6841
55°	5528	6072	6578
60°	5130	5737	6138
65°	4633	5233	5257
70°	3954	4393	4086
75°	3106	3205	2513
80°	2027	1649	972
85°	971	651	516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6965 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.8	3.7
10°-20°	1487.0	10.6
20°-30°	2211.6	15.7
30°-40°	2606.1	18.5
40°-50°	2642.3	18.8
50°-60°	2302.5	16.4
60°-70°	1574.7	11.2
70°-80°	632.5	4.5
80°-90°	73.4	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°	4222.4	30.0
0°-40°	6828.6	48.6
0°-60°	11773.4	83.8
0°-90°	14054.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14054.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5545	5545	5545	5545	5545	
5°	5536	5502	5524	5518	5522	525
15°	5260	5237	5277	5299	5316	1482
25°	4737	4739	4813	4848	4888	2181
35°	4035	4052	4163	4265	4338	2520
45°	3219	3263	3426	3580	3660	2485
55°	2356	2406	2589	2751	2804	2104
65°	1455	1521	1644	1656	1651	1439
75°	597	637	617	530	483	642
85°	63	56	42	37	33	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5545.1	5545.1	5545.1	5545.1	5545.1
2.5°	5562.9	5525.8	5545.1	5541.1	5526.9
5°	5536.0	5502.5	5524.4	5518.1	5521.8
7.5°	5492.3	5461.7	5484.7	5483.6	5489.8
10°	5432.3	5401.4	5429.7	5434.8	5442.5
12.5°	5352.6	5327.1	5361.7	5371.9	5387.2
15°	5260.3	5237.3	5277.0	5298.8	5315.5
17.5°	5152.6	5133.3	5184.6	5205.3	5228.2
20°	5028.2	5014.3	5074.4	5093.6	5127.1
22.5°	4889.9	4882.2	4944.9	4974.3	5012.9
25°	4737.2	4738.6	4812.8	4847.7	4888.5
27.5°	4577.0	4579.6	4664.3	4712.8	4756.4
30°	4403.9	4411.6	4503.9	4564.3	4621.8
32.5°	4220.6	4235.9	4335.9	4418.1	4482.1
35°	4034.7	4052.5	4163.0	4265.3	4338.4
37.5°	3833.5	3862.9	3987.3	4109.2	4184.6
40°	3636.0	3665.4	3805.1	3939.7	4016.8
42.5°	3432.2	3469.3	3618.1	3768.0	3842.3
45°	3219.4	3262.8	3425.7	3579.6	3660.3
47.5°	3015.4	3053.9	3225.6	3386.0	3469.3
50°	2790.9	2839.7	3017.9	3186.0	3268.1
52.5°	2577.0	2621.8	2805.1	2977.1	3051.4
55°	2356.5	2406.4	2588.6	2751.3	2804.0
57.5°	2130.7	2191.0	2366.7	2502.8	2552.6
60°	1906.5	1966.6	2132.1	2243.8	2280.9
62.5°	1683.2	1747.6	1892.4	1966.6	1966.6
65°	1455.1	1520.6	1643.6	1656.3	1651.2
67.5°	1227.0	1292.5	1386.0	1362.7	1347.4
70°	1005.1	1061.5	1116.8	1074.3	1038.6
72.5°	789.8	843.6	852.7	791.2	746.1
75°	597.4	637.3	616.6	529.6	483.4
77.5°	416.6	439.8	396.2	307.7	270.6
80°	261.6	271.8	212.8	149.9	125.5
82.5°	141.1	142.3	92.4	75.7	70.6
85°	62.9	56.4	42.2	37.1	33.4
87.5°	21.8	19.3	15.3	14.2	11.6
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	17.91	19.49	18.27	19.81	20.12	18.89	20.48	19.26	20.79	21.10
	3H	19.32	20.74	19.70	21.07	21.43	20.10	21.52	20.47	21.84	22.21
	4H	19.71	21.05	20.11	21.39	21.77	20.31	21.65	20.71	21.99	22.37
	6H	19.89	21.12	20.30	21.48	21.88	20.33	21.56	20.74	21.93	22.32
	8H	19.90	21.08	20.33	21.46	21.86	20.31	21.48	20.73	21.87	22.27
	12H	19.89	21.02	20.32	21.40	21.83	20.28	21.41	20.71	21.79	22.22
4H	2H	18.58	19.91	18.98	20.26	20.64	19.37	20.70	19.77	21.05	21.43
	3H	20.15	21.25	20.56	21.65	22.05	20.74	21.84	21.15	22.24	22.64
	4H	20.62	21.62	21.06	22.03	22.47	21.01	22.01	21.44	22.42	22.86
	6H	20.86	21.73	21.32	22.17	22.63	21.06	21.92	21.52	22.37	22.83
	8H	20.89	21.69	21.35	22.14	22.60	21.04	21.84	21.50	22.29	22.75
	12H	20.89	21.61	21.37	22.08	22.55	21.02	21.74	21.50	22.21	22.68
8H	4H	20.77	21.57	21.23	22.02	22.48	21.13	21.93	21.59	22.38	22.84
	6H	21.04	21.71	21.54	22.20	22.67	21.19	21.85	21.69	22.34	22.82
	8H	21.08	21.68	21.60	22.19	22.67	21.17	21.76	21.68	22.27	22.76
	12H	21.10	21.62	21.61	22.11	22.68	21.15	21.67	21.66	22.17	22.73
12H	4H	20.75	21.47	21.23	21.95	22.42	21.12	21.84	21.60	22.32	22.79
	6H	21.01	21.61	21.53	22.12	22.60	21.17	21.76	21.68	22.27	22.76
	8H	21.08	21.60	21.59	22.09	22.66	21.17	21.69	21.68	22.18	22.75