

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: P1499652

Luminaire Tested: MAE-G-4-120-3LO-STD-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499652
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-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

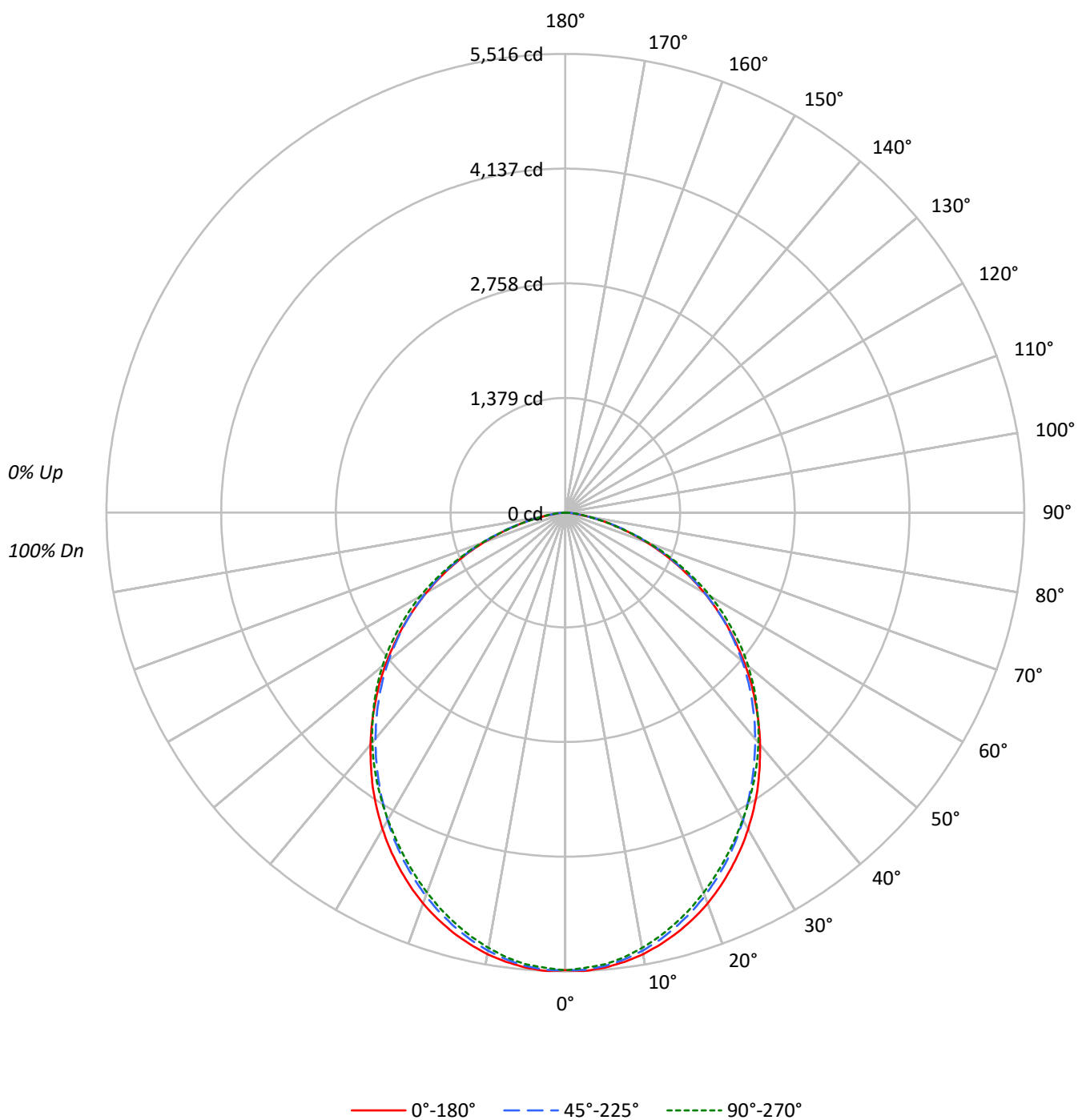
Lumens per Lamp: N/A
Luminaire Lumens: 13461.0 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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	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°	7404	7404	7404
5°	7417	7391	7363
10°	7366	7308	7261
15°	7277	7178	7121
20°	7160	7021	6960
25°	7005	6840	6786
30°	6827	6637	6625
35°	6626	6433	6486
40°	6398	6234	6342
45°	6150	6031	6185
50°	5879	5805	6003
55°	5572	5546	5753
60°	5193	5218	5436
65°	4723	4784	4907
70°	4075	4186	4206
75°	3245	3378	3249
80°	2197	2301	2245
85°	1142	1516	1897

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6185 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.7	3.8
10°-20°	1451.8	10.8
20°-30°	2126.7	15.8
30°-40°	2469.9	18.3
40°-50°	2469.4	18.3
50°-60°	2130.3	15.8
60°-70°	1487.7	11.1
70°-80°	682.4	5.1
80°-90°	125.2	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°	4096.2	30.4
0°-40°	6566.1	48.8
0°-60°	11165.7	82.9
0°-90°	13461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13461.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5503	5503	5503	5503	5503	
5°	5491	5470	5472	5443	5451	521
15°	5224	5189	5153	5106	5112	1472
25°	4718	4667	4607	4558	4571	2172
35°	4034	3970	3916	3917	3949	2520
45°	3232	3180	3170	3216	3250	2493
55°	2375	2334	2364	2428	2452	2120
65°	1484	1466	1502	1534	1541	1466
75°	624	623	650	638	625	671
85°	74	82	98	115	123	109
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5502.6	5502.6	5502.6	5502.6	5502.6
2.5°	5515.6	5495.7	5502.6	5479.7	5477.9
5°	5491.2	5469.7	5472.4	5443.2	5451.2
7.5°	5448.7	5424.9	5419.7	5386.8	5393.6
10°	5391.2	5362.2	5348.7	5310.0	5314.7
12.5°	5314.7	5283.4	5259.8	5214.7	5222.2
15°	5224.4	5188.9	5153.0	5106.2	5112.4
17.5°	5120.0	5079.7	5035.6	4982.2	4993.3
20°	5000.3	4955.6	4903.2	4846.9	4860.9
22.5°	4866.0	4817.5	4758.8	4706.0	4719.1
25°	4718.2	4667.4	4607.2	4557.6	4571.2
27.5°	4562.7	4505.9	4443.4	4403.2	4418.6
30°	4394.3	4334.7	4272.2	4241.3	4264.2
32.5°	4216.7	4156.3	4097.4	4081.9	4108.7
35°	4033.8	3969.7	3916.4	3917.3	3949.0
37.5°	3837.4	3780.7	3734.8	3751.8	3783.7
40°	3642.4	3583.5	3549.1	3576.8	3611.0
42.5°	3440.5	3386.4	3361.6	3401.6	3432.9
45°	3231.9	3179.9	3169.6	3216.1	3250.3
47.5°	3026.0	2973.9	2975.0	3027.4	3065.1
50°	2808.5	2762.8	2773.4	2834.5	2867.9
52.5°	2590.7	2547.1	2570.1	2635.5	2668.7
55°	2375.4	2334.2	2364.2	2428.5	2452.5
57.5°	2152.2	2122.4	2155.8	2213.6	2239.7
60°	1929.9	1902.8	1938.9	1995.2	2020.1
62.5°	1707.1	1685.6	1722.6	1771.3	1782.0
65°	1483.5	1465.5	1502.5	1533.9	1541.4
67.5°	1256.9	1246.6	1283.9	1305.7	1307.9
70°	1035.8	1024.0	1064.0	1076.6	1069.2
72.5°	821.0	817.3	848.3	852.2	837.9
75°	624.2	622.6	649.8	637.8	625.0
77.5°	441.5	442.2	460.8	446.3	439.9
80°	283.5	291.7	297.0	294.2	289.8
82.5°	159.3	169.7	173.9	191.8	199.4
85°	74.0	81.6	98.2	115.4	122.9
87.5°	25.1	31.3	40.7	43.9	41.2
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	17.89	19.47	18.25	19.79	20.10	18.18	19.76	18.55	20.08	20.39
	3H	19.34	20.77	19.72	21.09	21.46	19.64	21.06	20.01	21.39	21.75
	4H	19.77	21.10	20.16	21.45	21.83	20.04	21.37	20.43	21.72	22.10
	6H	19.97	21.21	20.38	21.57	21.97	20.22	21.46	20.64	21.83	22.22
	8H	20.00	21.18	20.42	21.57	21.97	20.26	21.44	20.69	21.83	22.23
	12H	20.00	21.13	20.43	21.51	21.94	20.29	21.42	20.72	21.80	22.23
4H	2H	18.46	19.80	18.86	20.15	20.52	18.70	20.03	19.10	20.38	20.76
	3H	20.09	21.20	20.50	21.60	22.00	20.34	21.45	20.75	21.85	22.25
	4H	20.60	21.60	21.03	22.02	22.45	20.83	21.83	21.26	22.25	22.68
	6H	20.88	21.75	21.34	22.19	22.65	21.10	21.97	21.55	22.41	22.87
	8H	20.92	21.74	21.39	22.18	22.65	21.16	21.97	21.62	22.41	22.88
	12H	20.94	21.66	21.42	22.14	22.61	21.20	21.93	21.68	22.40	22.87
8H	4H	20.79	21.60	21.25	22.05	22.51	21.00	21.81	21.46	22.26	22.72
	6H	21.13	21.80	21.62	22.29	22.76	21.32	21.99	21.82	22.48	22.96
	8H	21.20	21.80	21.71	22.30	22.79	21.41	22.01	21.92	22.52	23.01
	12H	21.23	21.76	21.74	22.25	22.82	21.49	22.02	22.00	22.52	23.08
12H	4H	20.79	21.52	21.27	21.99	22.46	21.00	21.72	21.48	22.20	22.67
	6H	21.12	21.73	21.64	22.24	22.72	21.32	21.92	21.83	22.43	22.91
	8H	21.23	21.76	21.74	22.25	22.81	21.44	21.97	21.95	22.46	23.03