

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: P1499610

Luminaire Tested: MAE-G-4-120-3LO-LO-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499610
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-LO-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

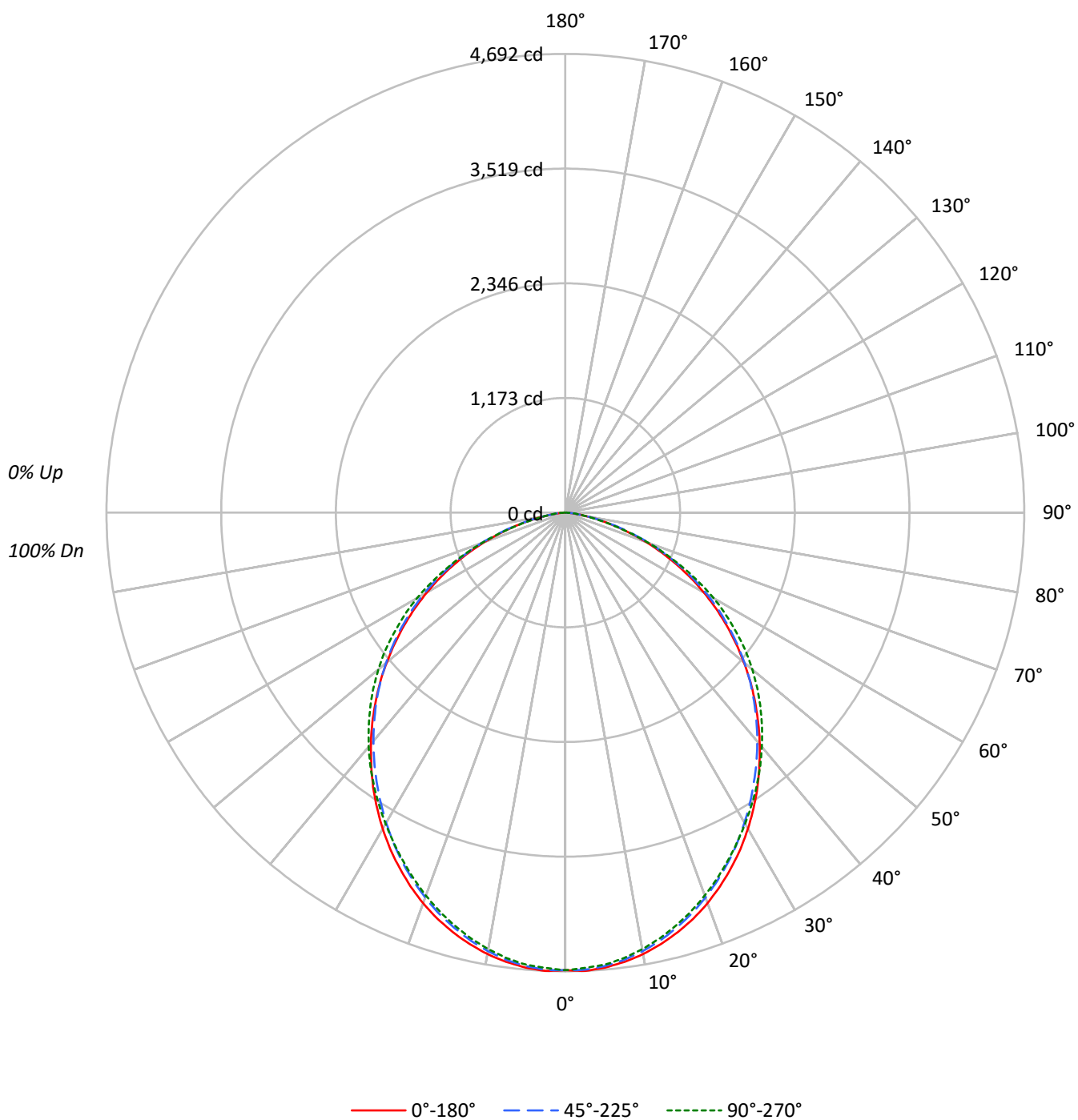
Lumens per Lamp: N/A
Luminaire Lumens: 11521.0 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 120.2
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	86		
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	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	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	43	40		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	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	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6297	6297	6297
5°	6309	6288	6268
10°	6265	6223	6193
15°	6189	6122	6091
20°	6087	5999	5968
25°	5954	5855	5834
30°	5801	5691	5709
35°	5628	5524	5604
40°	5432	5361	5492
45°	5220	5195	5368
50°	4988	5007	5222
55°	4727	4788	5008
60°	4402	4508	4721
65°	3998	4129	4220
70°	3444	3586	3555
75°	2735	2844	2652
80°	1840	1859	1720
85°	945	1159	1408

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5368 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.6	3.8
10°-20°	1238.4	10.7
20°-30°	1818.9	15.8
30°-40°	2117.9	18.4
40°-50°	2122.9	18.4
50°-60°	1834.8	15.9
60°-70°	1276.4	11.1
70°-80°	572.3	5.0
80°-90°	98.7	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°	3497.9	30.4
0°-40°	5615.8	48.7
0°-60°	9573.6	83.1
0°-90°	11521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11521.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4680	4680	4680	4680	4680	
5°	4671	4651	4656	4634	4641	443
15°	4443	4415	4395	4366	4372	1252
25°	4010	3975	3944	3914	3929	1846
35°	3426	3384	3363	3379	3412	2141
45°	2743	2713	2730	2785	2821	2117
55°	2015	1993	2041	2110	2135	1799
65°	1256	1253	1297	1321	1326	1241
75°	526	531	547	526	510	565
85°	61	66	75	87	91	91
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4680.1	4680.1	4680.1	4680.1	4680.1
2.5°	4691.9	4672.4	4680.1	4663.5	4660.1
5°	4670.8	4650.8	4655.9	4634.5	4640.7
7.5°	4634.6	4613.3	4613.0	4589.8	4595.5
10°	4585.3	4560.4	4555.1	4528.6	4533.1
12.5°	4519.8	4494.2	4482.7	4452.5	4460.0
15°	4442.9	4414.6	4395.2	4365.6	4372.4
17.5°	4353.7	4322.5	4299.2	4264.6	4275.9
20°	4251.3	4217.8	4190.0	4153.3	4168.0
22.5°	4136.6	4101.5	4069.5	4036.7	4051.6
25°	4010.4	3975.0	3943.6	3913.9	3929.4
27.5°	3877.6	3838.2	3806.7	3785.6	3802.9
30°	3734.0	3693.2	3662.9	3650.1	3674.6
32.5°	3582.2	3542.0	3515.4	3516.6	3544.9
35°	3426.4	3384.1	3362.9	3378.6	3411.5
37.5°	3258.9	3223.4	3209.5	3239.3	3272.8
40°	3092.9	3055.9	3052.3	3091.6	3126.8
42.5°	2921.2	2888.6	2893.0	2943.3	2976.2
45°	2743.4	2713.3	2730.0	2785.3	2821.1
47.5°	2568.7	2537.8	2563.8	2624.3	2663.0
50°	2383.0	2358.0	2391.8	2459.3	2494.9
52.5°	2198.5	2174.5	2217.6	2288.9	2323.1
55°	2014.9	1993.3	2041.2	2110.3	2134.9
57.5°	1824.8	1812.8	1862.2	1922.8	1948.5
60°	1635.9	1625.6	1675.3	1731.3	1754.3
62.5°	1446.5	1440.9	1488.1	1533.3	1540.8
65°	1255.9	1252.8	1297.0	1320.8	1325.5
67.5°	1063.2	1065.6	1105.6	1117.5	1116.7
70°	875.4	875.3	911.5	914.2	903.7
72.5°	692.7	698.1	721.2	714.8	698.2
75°	526.2	531.0	547.1	525.8	510.1
77.5°	371.3	375.3	381.9	358.7	348.7
80°	237.5	244.8	239.9	228.7	222.0
82.5°	132.6	140.1	135.7	145.8	150.4
85°	61.2	65.6	75.1	86.6	91.2
87.5°	20.9	24.8	30.8	32.8	30.7
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	17.32	18.91	17.69	19.22	19.54	17.74	19.33	18.11	19.64	19.96
	3H	18.77	20.20	19.15	20.52	20.88	19.15	20.57	19.53	20.90	21.26
	4H	19.19	20.53	19.59	20.87	21.25	19.51	20.85	19.91	21.20	21.58
	6H	19.39	20.63	19.80	20.99	21.38	19.66	20.90	20.08	21.27	21.66
	8H	19.41	20.59	19.84	20.98	21.38	19.69	20.87	20.11	21.26	21.66
	12H	19.41	20.54	19.84	20.92	21.35	19.70	20.83	20.13	21.21	21.64
4H	2H	17.91	19.25	18.31	19.60	19.98	18.25	19.59	18.65	19.94	20.31
	3H	19.53	20.64	19.94	21.04	21.44	19.84	20.95	20.25	21.35	21.75
	4H	20.04	21.04	20.47	21.45	21.89	20.29	21.29	20.72	21.70	22.14
	6H	20.31	21.18	20.77	21.62	22.08	20.51	21.38	20.96	21.82	22.28
	8H	20.35	21.16	20.81	21.60	22.07	20.55	21.36	21.01	21.80	22.27
	12H	20.36	21.09	20.84	21.56	22.03	20.58	21.30	21.06	21.78	22.25
8H	4H	20.22	21.03	20.68	21.47	21.94	20.45	21.26	20.91	21.71	22.17
	6H	20.54	21.21	21.04	21.70	22.18	20.72	21.38	21.21	21.87	22.35
	8H	20.61	21.21	21.12	21.72	22.20	20.78	21.38	21.29	21.89	22.38
	12H	20.64	21.17	21.15	21.66	22.22	20.84	21.37	21.35	21.86	22.42
12H	4H	20.21	20.94	20.69	21.42	21.89	20.45	21.17	20.93	21.65	22.12
	6H	20.54	21.14	21.05	21.64	22.13	20.71	21.31	21.22	21.82	22.30
	8H	20.63	21.16	21.14	21.65	22.22	20.81	21.33	21.31	21.83	22.39