

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: P1498932

Luminaire Tested: MAE-G-4-120-1HI-HI-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1HI-HI-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

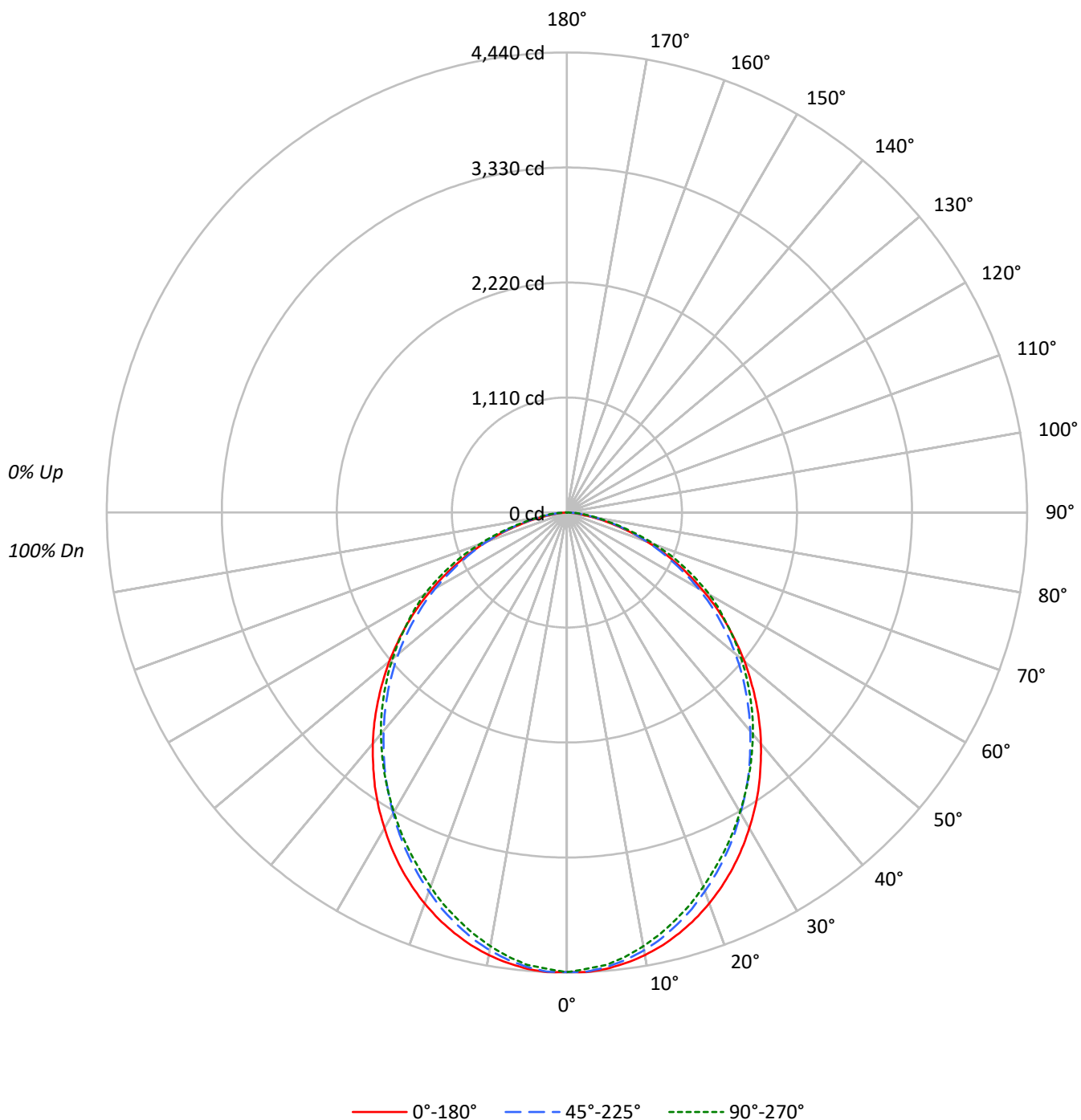
Lumens per Lamp: N/A
Luminaire Lumens: 10614.0 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	82	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	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	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5968	5968	5968
5°	5970	5947	5918
10°	5927	5862	5807
15°	5852	5731	5663
20°	5749	5571	5506
25°	5622	5399	5345
30°	5468	5206	5187
35°	5305	5025	5041
40°	5116	4834	4904
45°	4906	4645	4753
50°	4683	4443	4596
55°	4424	4208	4430
60°	4105	3938	4283
65°	3736	3588	3982
70°	3242	3226	3549
75°	2587	2745	2914
80°	1789	2121	2312
85°	999	1616	2104

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4906 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.3	3.9
10°-20°	1160.6	10.9
20°-30°	1686.0	15.9
30°-40°	1940.3	18.3
40°-50°	1920.5	18.1
50°-60°	1644.4	15.5
60°-70°	1159.7	10.9
70°-80°	563.5	5.3
80°-90°	122.7	1.2
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°	3263.0	30.7
0°-40°	5203.3	49.0
0°-60°	8768.1	82.6
0°-90°	10614.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10614.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4435	4435	4435	4435	4435	
5°	4420	4416	4403	4372	4382	419
15°	4201	4178	4115	4060	4066	1184
25°	3787	3732	3637	3590	3600	1743
35°	3230	3154	3059	3048	3069	2018
45°	2578	2509	2441	2471	2498	1989
55°	1886	1822	1794	1847	1888	1684
65°	1173	1123	1127	1213	1251	1161
75°	498	476	528	560	561	537
85°	65	79	105	127	136	92
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4435.4	4435.4	4435.4	4435.4	4435.4
2.5°	4440.5	4444.2	4435.4	4402.2	4407.9
5°	4420.2	4416.3	4403.1	4372.0	4381.9
7.5°	4384.9	4378.8	4355.0	4318.1	4324.5
10°	4338.0	4325.8	4290.5	4244.6	4250.0
12.5°	4277.3	4261.0	4211.3	4159.1	4164.8
15°	4201.3	4177.9	4114.6	4059.7	4065.6
17.5°	4114.1	4087.4	4010.8	3951.2	3963.8
20°	4015.3	3979.2	3891.1	3834.6	3845.4
22.5°	3906.5	3861.0	3768.6	3714.1	3722.7
25°	3786.6	3731.5	3636.6	3590.1	3600.2
27.5°	3657.4	3596.8	3499.3	3456.8	3472.4
30°	3519.7	3454.3	3351.1	3321.7	3338.8
32.5°	3378.2	3308.8	3206.9	3188.1	3205.1
35°	3229.6	3153.8	3059.0	3047.7	3069.1
37.5°	3070.5	2997.6	2904.0	2911.3	2931.4
40°	2913.0	2837.6	2752.0	2768.1	2792.3
42.5°	2749.2	2676.4	2598.3	2620.9	2649.1
45°	2578.5	2509.1	2440.9	2470.9	2497.9
47.5°	2407.3	2338.5	2283.1	2318.2	2350.3
50°	2237.3	2171.2	2122.6	2165.3	2195.5
52.5°	2058.8	1995.8	1961.1	2006.1	2044.8
55°	1885.8	1821.8	1793.8	1847.4	1888.4
57.5°	1707.0	1654.6	1630.4	1693.3	1744.5
60°	1525.5	1473.7	1463.4	1542.9	1591.5
62.5°	1348.1	1297.3	1292.7	1385.8	1420.7
65°	1173.4	1123.3	1127.1	1213.0	1250.7
67.5°	1000.3	954.3	975.5	1057.9	1083.0
70°	824.0	783.0	820.0	889.6	902.1
72.5°	658.5	623.9	674.1	722.9	725.9
75°	497.6	476.3	528.1	560.3	560.6
77.5°	356.2	345.0	392.8	414.7	416.0
80°	230.9	236.1	273.7	290.8	298.4
82.5°	134.6	146.5	175.9	205.1	212.8
85°	64.7	79.0	104.7	127.1	136.3
87.5°	22.5	32.0	43.7	48.4	47.1
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	17.00	18.59	17.37	18.90	19.22	17.17	18.76	17.54	19.07	19.39
	3H	18.45	19.88	18.83	20.21	20.57	18.82	20.24	19.20	20.57	20.93
	4H	18.88	20.22	19.28	20.57	20.95	19.32	20.66	19.72	21.01	21.38
	6H	19.10	20.34	19.51	20.70	21.10	19.62	20.85	20.03	21.22	21.61
	8H	19.14	20.32	19.56	20.71	21.11	19.70	20.88	20.13	21.27	21.67
	12H	19.14	20.27	19.57	20.65	21.08	19.77	20.90	20.19	21.28	21.71
4H	2H	17.52	18.86	17.92	19.21	19.58	17.66	19.00	18.06	19.34	19.72
	3H	19.15	20.27	19.56	20.67	21.07	19.51	20.62	19.92	21.02	21.42
	4H	19.67	20.67	20.10	21.09	21.52	20.12	21.13	20.55	21.54	21.98
	6H	19.97	20.84	20.42	21.28	21.74	20.52	21.39	20.98	21.84	22.29
	8H	20.02	20.84	20.49	21.28	21.75	20.64	21.46	21.10	21.90	22.37
	12H	20.05	20.78	20.53	21.25	21.72	20.74	21.47	21.22	21.95	22.42
8H	4H	19.89	20.71	20.35	21.15	21.62	20.30	21.12	20.76	21.56	22.03
	6H	20.26	20.93	20.75	21.42	21.90	20.78	21.46	21.28	21.95	22.42
	8H	20.35	20.95	20.86	21.46	21.95	20.96	21.56	21.47	22.07	22.56
	12H	20.40	20.93	20.91	21.43	21.99	21.12	21.65	21.62	22.14	22.70
12H	4H	19.90	20.64	20.39	21.11	21.58	20.30	21.03	20.78	21.51	21.98
	6H	20.28	20.89	20.79	21.39	21.88	20.79	21.39	21.30	21.90	22.39
	8H	20.41	20.94	20.92	21.43	22.00	21.01	21.54	21.52	22.03	22.60