

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: P1498977

Luminaire Tested: MAE-G-4-120-1HI-STD-40

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498977
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-STD-40
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

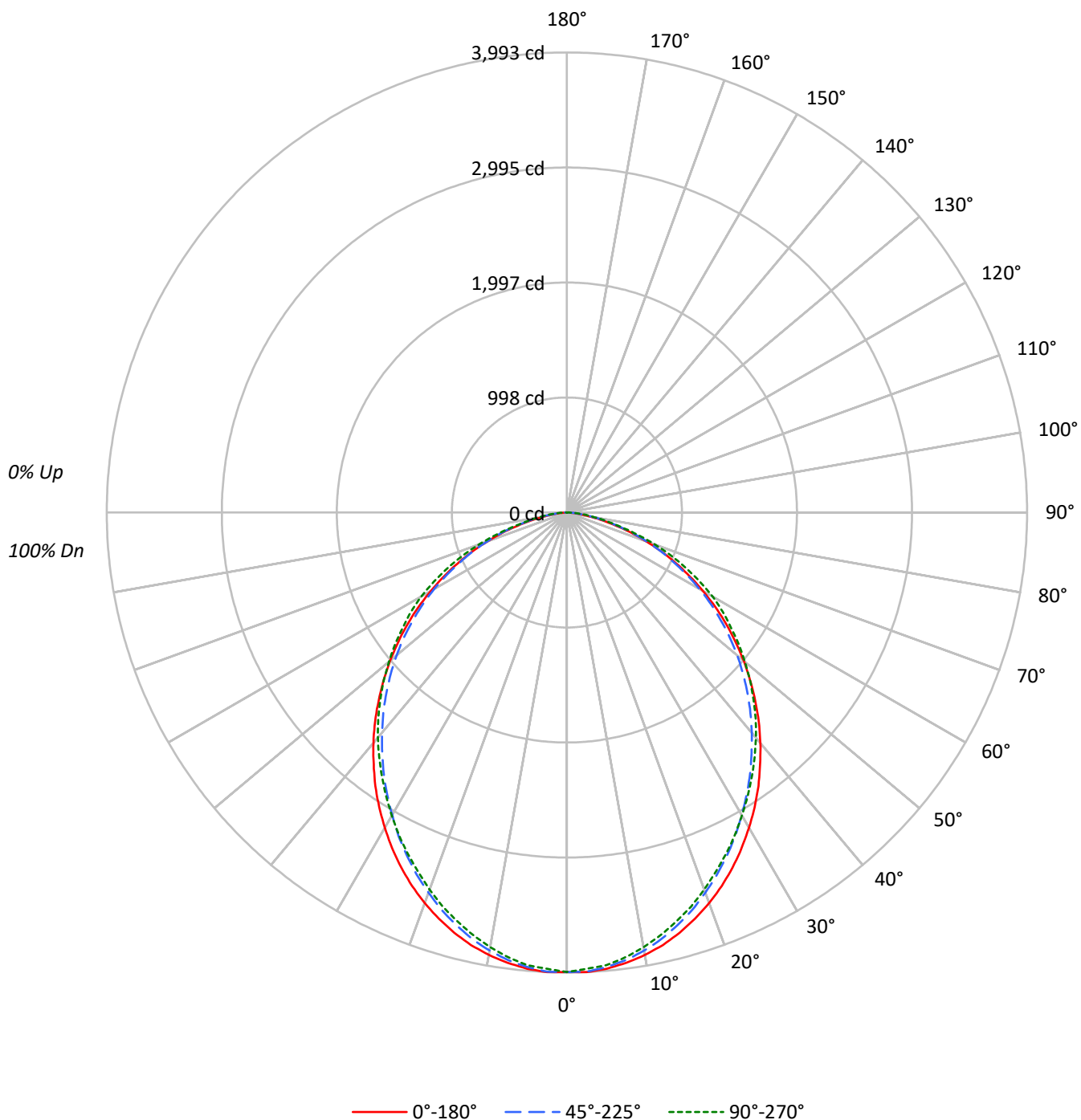
Lumens per Lamp: N/A
Luminaire Lumens: 9588.0 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 112.8
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	87	85
2	100	92	86	80	98	90	85	79	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	57		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	43	41
7	67	53	45	39	65	53	45	39	51	44	39		50	43	38		48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45	39	34	32
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38	32	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5366	5366	5366
5°	5368	5348	5325
10°	5328	5276	5233
15°	5260	5165	5116
20°	5165	5027	4986
25°	5049	4878	4852
30°	4908	4710	4719
35°	4759	4551	4596
40°	4588	4383	4481
45°	4397	4215	4352
50°	4194	4036	4218
55°	3958	3824	4071
60°	3668	3580	3934
65°	3333	3257	3627
70°	2889	2910	3186
75°	2300	2443	2545
80°	1585	1841	1950
85°	883	1372	1755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4397 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.6	3.9
10°-20°	1046.0	10.9
20°-30°	1522.7	15.9
30°-40°	1755.9	18.3
40°-50°	1741.1	18.2
50°-60°	1492.8	15.6
60°-70°	1049.3	10.9
70°-80°	500.4	5.2
80°-90°	105.2	1.1
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°	2943.3	30.7
0°-40°	4699.2	49.0
0°-60°	7933.2	82.7
0°-90°	9588.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9588.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3988	3988	3988	3988	3988	
5°	3974	3971	3960	3934	3943	377
15°	3776	3758	3708	3666	3673	1064
25°	3401	3357	3286	3255	3268	1565
35°	2898	2838	2771	2774	2798	1810
45°	2311	2259	2215	2257	2287	1782
55°	1687	1640	1630	1692	1736	1506
65°	1047	1010	1023	1104	1139	1036
75°	442	427	470	493	490	478
85°	57	69	89	107	114	81
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3988.4	3988.4	3988.4	3988.4	3988.4
2.5°	3993.1	3996.1	3988.4	3959.6	3963.8
5°	3974.3	3970.7	3959.9	3934.4	3942.9
7.5°	3942.3	3937.3	3917.9	3888.2	3893.9
10°	3900.0	3890.0	3861.5	3824.8	3830.2
12.5°	3845.1	3832.3	3792.4	3751.7	3757.9
15°	3776.2	3757.5	3707.6	3666.2	3672.9
17.5°	3697.1	3676.8	3617.0	3572.1	3585.4
20°	3607.5	3579.4	3511.2	3469.9	3482.3
22.5°	3509.2	3473.5	3402.7	3364.1	3375.1
25°	3400.8	3357.1	3285.8	3255.2	3268.1
27.5°	3283.7	3236.0	3164.1	3137.3	3155.7
30°	3159.1	3108.1	3031.5	3017.5	3037.6
32.5°	3031.6	2977.6	2902.6	2898.8	2918.8
35°	2897.5	2838.3	2770.7	2773.5	2798.2
37.5°	2753.9	2697.7	2631.5	2652.1	2675.7
40°	2612.1	2553.7	2495.2	2524.2	2551.5
42.5°	2464.6	2409.0	2357.1	2391.8	2423.5
45°	2310.6	2258.7	2215.3	2256.7	2287.4
47.5°	2156.4	2104.6	2072.9	2118.8	2154.1
50°	2003.4	1954.4	1928.2	1980.8	2015.1
52.5°	1843.4	1796.4	1782.1	1836.5	1878.5
55°	1687.4	1639.5	1630.2	1692.3	1735.5
57.5°	1526.7	1489.1	1482.0	1551.3	1603.9
60°	1363.2	1325.7	1330.4	1413.3	1461.8
62.5°	1204.1	1167.0	1174.3	1267.3	1300.0
65°	1047.0	1010.1	1022.9	1103.9	1139.3
67.5°	892.6	857.9	883.8	958.4	981.1
70°	734.4	703.8	739.6	800.7	809.9
72.5°	586.4	560.2	604.8	644.3	644.3
75°	442.4	427.0	470.0	492.9	489.5
77.5°	316.3	308.2	345.8	358.8	356.3
80°	204.5	209.3	237.6	246.5	251.7
82.5°	119.0	128.8	150.3	173.2	178.6
85°	57.2	68.9	88.9	106.8	113.7
87.5°	19.9	27.7	36.9	40.8	39.7
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	16.62	18.20	16.98	18.51	18.83	16.92	18.51	17.29	18.82	19.13
	3H	18.06	19.48	18.43	19.81	20.17	18.53	19.95	18.90	20.28	20.64
	4H	18.48	19.82	18.88	20.17	20.54	18.99	20.33	19.39	20.68	21.06
	6H	18.69	19.93	19.11	20.30	20.69	19.25	20.49	19.66	20.85	21.25
	8H	18.73	19.91	19.15	20.30	20.70	19.32	20.50	19.75	20.89	21.29
	12H	18.73	19.86	19.16	20.24	20.67	19.37	20.50	19.80	20.88	21.31
4H	2H	17.15	18.48	17.54	18.83	19.21	17.40	18.73	17.79	19.08	19.46
	3H	18.77	19.88	19.18	20.28	20.68	19.20	20.31	19.61	20.71	21.11
	4H	19.28	20.28	19.71	20.69	21.13	19.78	20.78	20.21	21.19	21.63
	6H	19.57	20.44	20.03	20.88	21.34	20.13	21.00	20.58	21.44	21.90
	8H	19.62	20.44	20.08	20.88	21.35	20.23	21.05	20.69	21.49	21.96
	12H	19.64	20.37	20.12	20.85	21.32	20.31	21.04	20.80	21.52	21.99
8H	4H	19.49	20.31	19.96	20.75	21.22	19.95	20.76	20.41	21.21	21.67
	6H	19.85	20.52	20.35	21.01	21.49	20.37	21.05	20.87	21.54	22.01
	8H	19.93	20.54	20.45	21.05	21.53	20.53	21.13	21.04	21.64	22.12
	12H	19.98	20.52	20.49	21.01	21.57	20.66	21.19	21.17	21.69	22.25
12H	4H	19.50	20.23	19.98	20.71	21.18	19.95	20.68	20.43	21.15	21.62
	6H	19.87	20.47	20.38	20.98	21.47	20.38	20.98	20.89	21.49	21.98
	8H	19.99	20.52	20.50	21.01	21.58	20.57	21.10	21.08	21.59	22.16