

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: P1498917

Luminaire Tested: MAE-G-4-120-1HI-HI-30

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498917
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-30
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

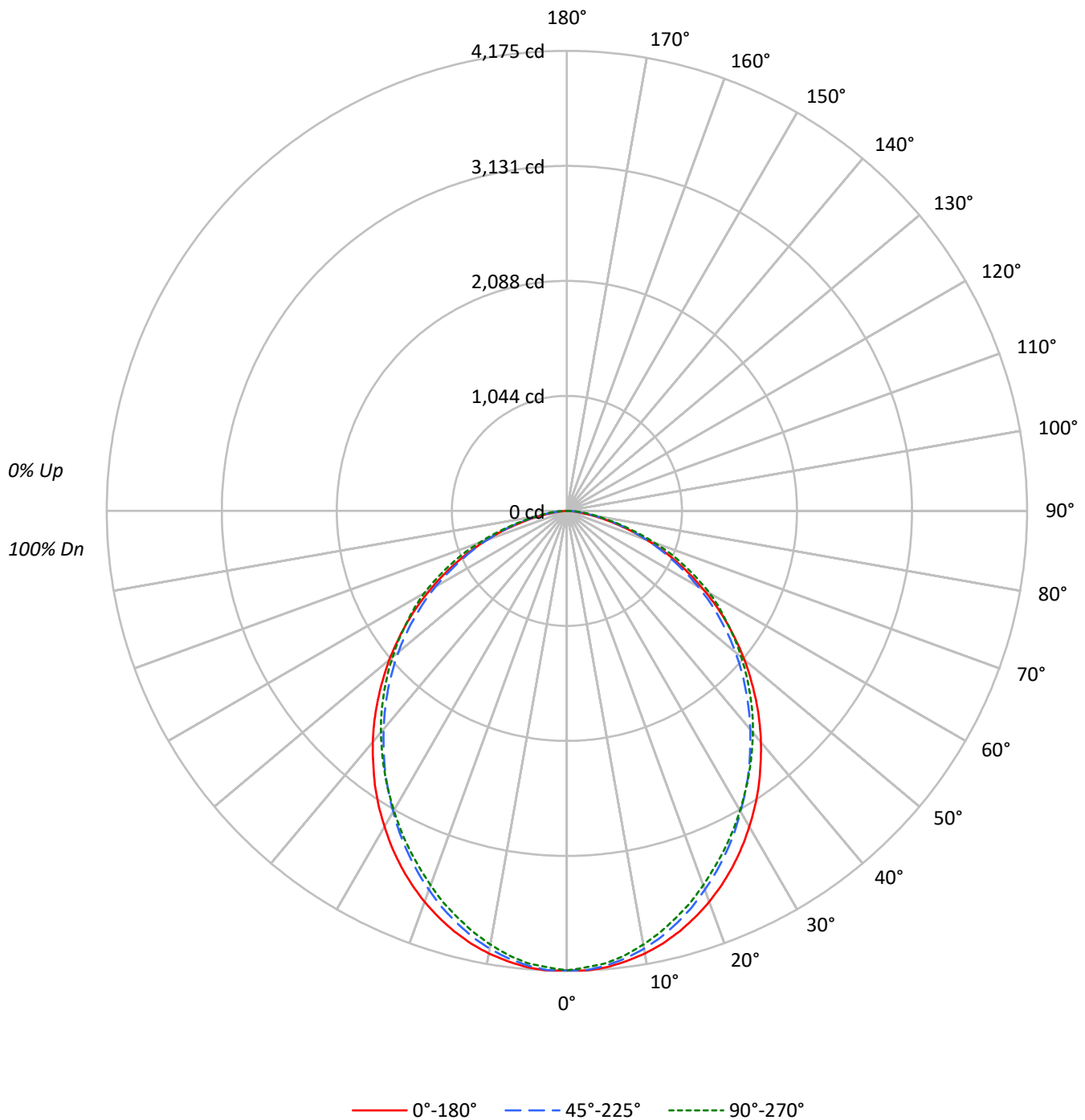
Lumens per Lamp: N/A
Luminaire Lumens: 9980.1 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	5611	5611	5611
5°	5613	5592	5565
10°	5573	5512	5460
15°	5503	5389	5325
20°	5406	5239	5177
25°	5286	5077	5026
30°	5142	4895	4877
35°	4988	4724	4740
40°	4811	4545	4611
45°	4614	4367	4469
50°	4403	4178	4321
55°	4160	3957	4165
60°	3860	3703	4027
65°	3513	3374	3744
70°	3048	3033	3337
75°	2432	2582	2740
80°	1683	1994	2173
85°	940	1519	1978

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4614 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.5	3.9
10°-20°	1091.3	10.9
20°-30°	1585.3	15.9
30°-40°	1824.4	18.3
40°-50°	1805.8	18.1
50°-60°	1546.2	15.5
60°-70°	1090.5	10.9
70°-80°	529.8	5.3
80°-90°	115.3	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°	3068.1	30.7
0°-40°	4892.5	49.0
0°-60°	8244.4	82.6
0°-90°	9980.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9980.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4170	4170	4170	4170	4170	
5°	4156	4153	4140	4111	4120	394
15°	3950	3928	3869	3817	3823	1113
25°	3560	3508	3420	3376	3385	1639
35°	3037	2965	2876	2866	2886	1897
45°	2425	2359	2295	2323	2349	1870
55°	1773	1713	1687	1737	1776	1583
65°	1103	1056	1060	1141	1176	1092
75°	468	448	497	527	527	505
85°	61	74	98	120	128	86
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4170.5	4170.5	4170.5	4170.5	4170.5
2.5°	4175.3	4178.8	4170.5	4139.2	4144.6
5°	4156.1	4152.6	4140.2	4110.9	4120.1
7.5°	4122.9	4117.2	4094.8	4060.2	4066.2
10°	4078.9	4067.5	4034.3	3991.0	3996.1
12.5°	4021.8	4006.5	3959.7	3910.6	3916.1
15°	3950.4	3928.3	3868.8	3817.2	3822.7
17.5°	3868.3	3843.2	3771.2	3715.2	3727.0
20°	3775.5	3741.5	3658.6	3605.6	3615.8
22.5°	3673.1	3630.5	3543.5	3492.3	3500.3
25°	3560.5	3508.5	3419.5	3375.6	3385.2
27.5°	3438.9	3382.0	3290.3	3250.3	3265.0
30°	3309.5	3248.0	3150.9	3123.3	3139.3
32.5°	3176.5	3111.1	3015.4	2997.6	3013.7
35°	3036.6	2965.4	2876.3	2865.6	2885.8
37.5°	2887.1	2818.6	2730.5	2737.4	2756.2
40°	2739.0	2668.1	2587.6	2602.8	2625.5
42.5°	2584.9	2516.6	2443.1	2464.3	2491.0
45°	2424.6	2359.2	2295.1	2323.4	2348.6
47.5°	2263.5	2198.9	2146.8	2179.8	2209.9
50°	2103.6	2041.5	1995.9	2036.0	2064.4
52.5°	1935.8	1876.6	1844.0	1886.3	1922.8
55°	1773.2	1713.0	1686.7	1737.0	1775.7
57.5°	1605.0	1555.7	1533.0	1592.2	1640.4
60°	1434.4	1385.8	1376.0	1450.8	1496.5
62.5°	1267.6	1219.8	1215.5	1303.1	1335.9
65°	1103.3	1056.2	1059.8	1140.6	1176.0
67.5°	940.6	897.3	917.2	994.7	1018.3
70°	774.8	736.2	771.0	836.5	848.2
72.5°	619.1	586.7	633.9	679.7	682.5
75°	467.9	447.8	496.6	526.9	527.1
77.5°	334.9	324.4	369.3	390.0	391.2
80°	217.2	221.9	257.4	273.5	280.5
82.5°	126.5	137.7	165.5	192.9	200.1
85°	60.9	74.3	98.4	119.5	128.1
87.5°	21.1	30.0	41.1	45.6	44.3
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	16.79	18.37	17.16	18.69	19.00	16.96	18.54	17.33	18.86	19.17
	3H	18.24	19.66	18.62	19.99	20.35	18.60	20.03	18.98	20.36	20.72
	4H	18.67	20.01	19.07	20.35	20.73	19.11	20.44	19.51	20.79	21.17
	6H	18.89	20.13	19.30	20.49	20.88	19.40	20.64	19.81	21.01	21.40
	8H	18.92	20.10	19.35	20.49	20.89	19.49	20.67	19.91	21.06	21.46
	12H	18.93	20.06	19.36	20.44	20.87	19.55	20.68	19.98	21.06	21.49
4H	2H	17.31	18.64	17.70	18.99	19.37	17.44	18.78	17.84	19.13	19.51
	3H	18.94	20.06	19.35	20.45	20.85	19.29	20.41	19.70	20.81	21.21
	4H	19.45	20.46	19.89	20.87	21.31	19.91	20.91	20.34	21.33	21.76
	6H	19.75	20.63	20.21	21.07	21.53	20.31	21.18	20.76	21.62	22.08
	8H	19.81	20.63	20.27	21.07	21.54	20.43	21.25	20.89	21.69	22.15
	12H	19.83	20.56	20.31	21.04	21.51	20.53	21.26	21.01	21.73	22.20
8H	4H	19.68	20.49	20.14	20.94	21.40	20.09	20.91	20.55	21.35	21.82
	6H	20.05	20.72	20.54	21.21	21.69	20.57	21.24	21.06	21.73	22.21
	8H	20.13	20.74	20.64	21.25	21.73	20.74	21.35	21.26	21.86	22.34
	12H	20.19	20.72	20.69	21.21	21.77	20.90	21.44	21.41	21.93	22.49
12H	4H	19.69	20.42	20.17	20.90	21.37	20.09	20.82	20.57	21.30	21.77
	6H	20.07	20.67	20.58	21.18	21.67	20.57	21.18	21.08	21.69	22.17
	8H	20.19	20.73	20.70	21.22	21.78	20.79	21.33	21.30	21.82	22.38