

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: P1498962

Luminaire Tested: MAE-G-4-120-1HI-STD-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498962
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-30-90
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

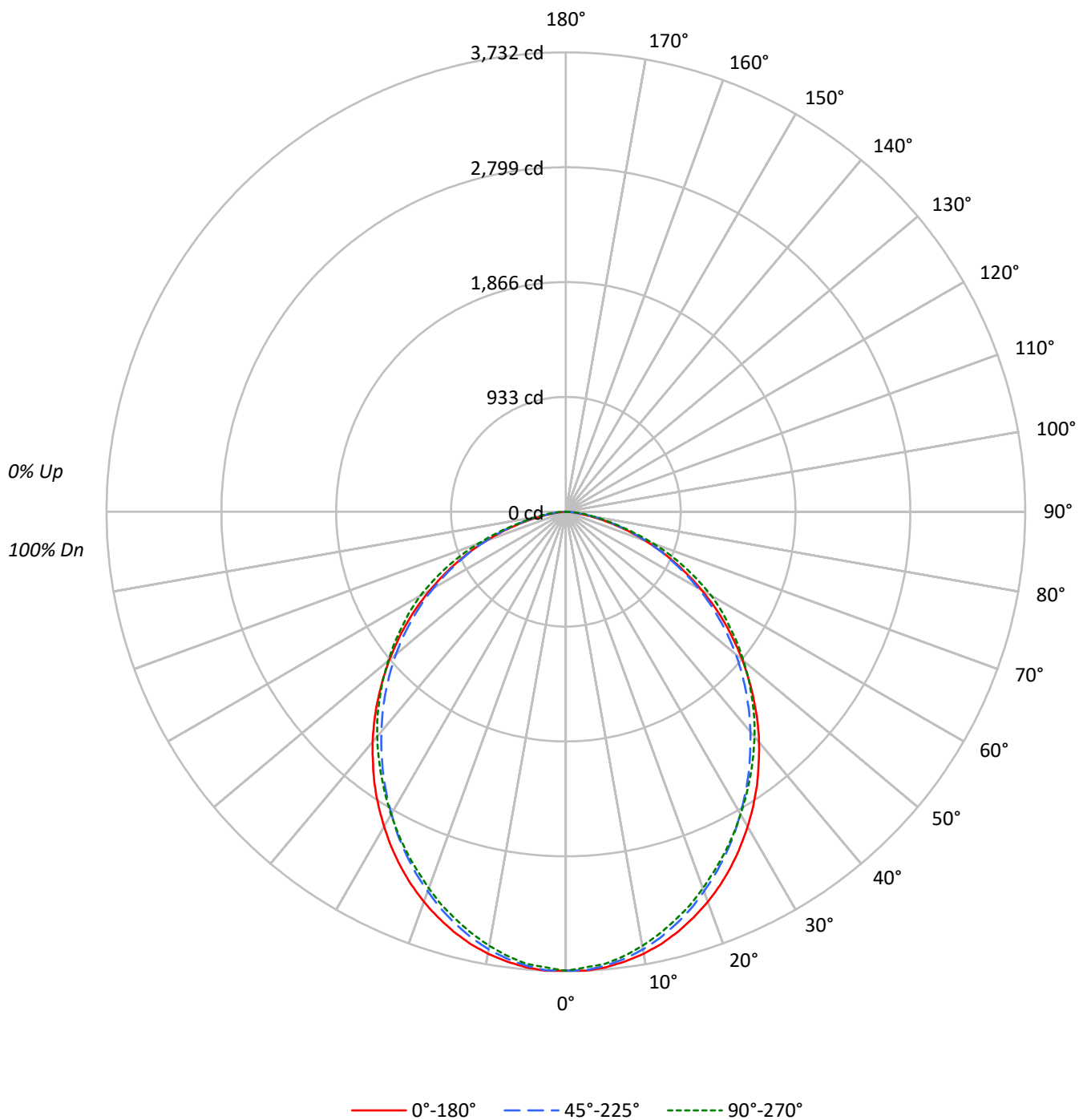
Lumens per Lamp: N/A
Luminaire Lumens: 8962.0 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
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	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	85	79	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		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°	5016	5016	5016
5°	5017	4999	4978
10°	4980	4931	4891
15°	4917	4827	4782
20°	4828	4699	4661
25°	4719	4560	4535
30°	4588	4402	4411
35°	4448	4254	4296
40°	4288	4097	4189
45°	4109	3940	4068
50°	3920	3772	3943
55°	3700	3575	3806
60°	3429	3346	3677
65°	3116	3044	3390
70°	2700	2720	2978
75°	2150	2284	2378
80°	1481	1721	1823
85°	824	1283	1641

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4109 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.1	3.9
10°-20°	977.7	10.9
20°-30°	1423.3	15.9
30°-40°	1641.3	18.3
40°-50°	1627.5	18.2
50°-60°	1395.4	15.6
60°-70°	980.8	10.9
70°-80°	467.7	5.2
80°-90°	98.3	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°	2751.1	30.7
0°-40°	4392.4	49.0
0°-60°	7415.2	82.7
0°-90°	8962.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8962.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3728	3728	3728	3728	3728	
5°	3715	3712	3701	3678	3686	352
15°	3530	3512	3466	3427	3433	994
25°	3179	3138	3071	3043	3055	1463
35°	2708	2653	2590	2592	2616	1692
45°	2160	2111	2071	2109	2138	1666
55°	1577	1532	1524	1582	1622	1408
65°	979	944	956	1032	1065	969
75°	414	399	439	461	458	447
85°	53	64	83	100	106	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3728.0	3728.0	3728.0	3728.0	3728.0
2.5°	3732.4	3735.2	3728.0	3701.0	3705.0
5°	3714.8	3711.5	3701.4	3677.5	3685.5
7.5°	3684.9	3680.3	3662.1	3634.3	3639.7
10°	3645.3	3636.0	3609.4	3575.0	3580.1
12.5°	3594.0	3582.1	3544.9	3506.7	3512.6
15°	3529.7	3512.1	3465.6	3426.7	3433.2
17.5°	3455.7	3436.6	3380.7	3338.9	3351.4
20°	3372.0	3345.7	3281.9	3243.4	3255.0
22.5°	3280.1	3246.7	3180.5	3144.5	3154.7
25°	3178.8	3137.8	3071.4	3042.7	3054.8
27.5°	3069.3	3024.7	2957.6	2932.5	2949.7
30°	2952.9	2905.1	2833.5	2820.5	2839.2
32.5°	2833.6	2783.2	2713.1	2709.5	2728.3
35°	2708.3	2653.1	2589.8	2592.5	2615.5
37.5°	2574.1	2521.6	2459.7	2479.0	2501.0
40°	2441.6	2387.1	2332.4	2359.4	2384.9
42.5°	2303.7	2251.7	2203.2	2235.6	2265.4
45°	2159.7	2111.2	2070.7	2109.4	2138.0
47.5°	2015.7	1967.3	1937.5	1980.5	2013.6
50°	1872.6	1826.7	1802.2	1851.5	1883.6
52.5°	1723.0	1679.0	1665.7	1716.7	1755.9
55°	1577.2	1532.5	1523.8	1581.8	1622.3
57.5°	1426.9	1391.9	1385.2	1450.0	1499.3
60°	1274.1	1239.2	1243.5	1321.1	1366.3
62.5°	1125.4	1090.8	1097.6	1184.6	1215.1
65°	978.7	944.1	956.1	1031.8	1064.9
67.5°	834.3	801.8	826.1	895.9	917.0
70°	686.4	657.8	691.3	748.5	757.1
72.5°	548.1	523.6	565.4	602.2	602.2
75°	413.6	399.1	439.3	460.7	457.5
77.5°	295.7	288.0	323.2	335.4	333.1
80°	191.2	195.5	222.1	230.5	235.3
82.5°	111.2	120.3	140.6	162.0	166.9
85°	53.4	64.3	83.1	99.8	106.3
87.5°	18.6	25.9	34.4	38.1	37.1
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	16.38	17.97	16.75	18.28	18.59	16.69	18.27	17.05	18.59	18.90
	3H	17.82	19.25	18.20	19.57	19.93	18.29	19.72	18.67	20.04	20.40
	4H	18.25	19.58	18.64	19.93	20.31	18.76	20.10	19.16	20.45	20.82
	6H	18.46	19.70	18.87	20.06	20.45	19.02	20.25	19.43	20.62	21.01
	8H	18.49	19.67	18.92	20.06	20.46	19.09	20.27	19.51	20.66	21.06
	12H	18.50	19.63	18.93	20.01	20.44	19.14	20.27	19.57	20.65	21.08
4H	2H	16.91	18.25	17.31	18.60	18.97	17.16	18.50	17.56	18.85	19.22
	3H	18.53	19.65	18.94	20.05	20.45	18.97	20.08	19.38	20.48	20.88
	4H	19.04	20.04	19.47	20.46	20.90	19.54	20.54	19.97	20.96	21.40
	6H	19.33	20.21	19.79	20.65	21.11	19.89	20.77	20.35	21.21	21.67
	8H	19.39	20.20	19.85	20.65	21.11	20.00	20.81	20.46	21.26	21.72
	12H	19.41	20.14	19.89	20.61	21.08	20.08	20.81	20.56	21.29	21.76
8H	4H	19.26	20.07	19.72	20.52	20.98	19.71	20.53	20.18	20.97	21.44
	6H	19.62	20.29	20.11	20.78	21.26	20.14	20.81	20.63	21.30	21.78
	8H	19.70	20.30	20.21	20.81	21.30	20.29	20.89	20.80	21.40	21.89
	12H	19.75	20.28	20.26	20.77	21.34	20.43	20.96	20.94	21.45	22.01
12H	4H	19.27	20.00	19.75	20.47	20.94	19.71	20.44	20.19	20.92	21.39
	6H	19.63	20.24	20.14	20.74	21.23	20.14	20.75	20.65	21.25	21.74
	8H	19.75	20.29	20.26	20.78	21.34	20.33	20.87	20.84	21.36	21.92