

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: P1499346

Luminaire Tested: MAE-G-4-120-2LO-STD-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2LO-STD-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

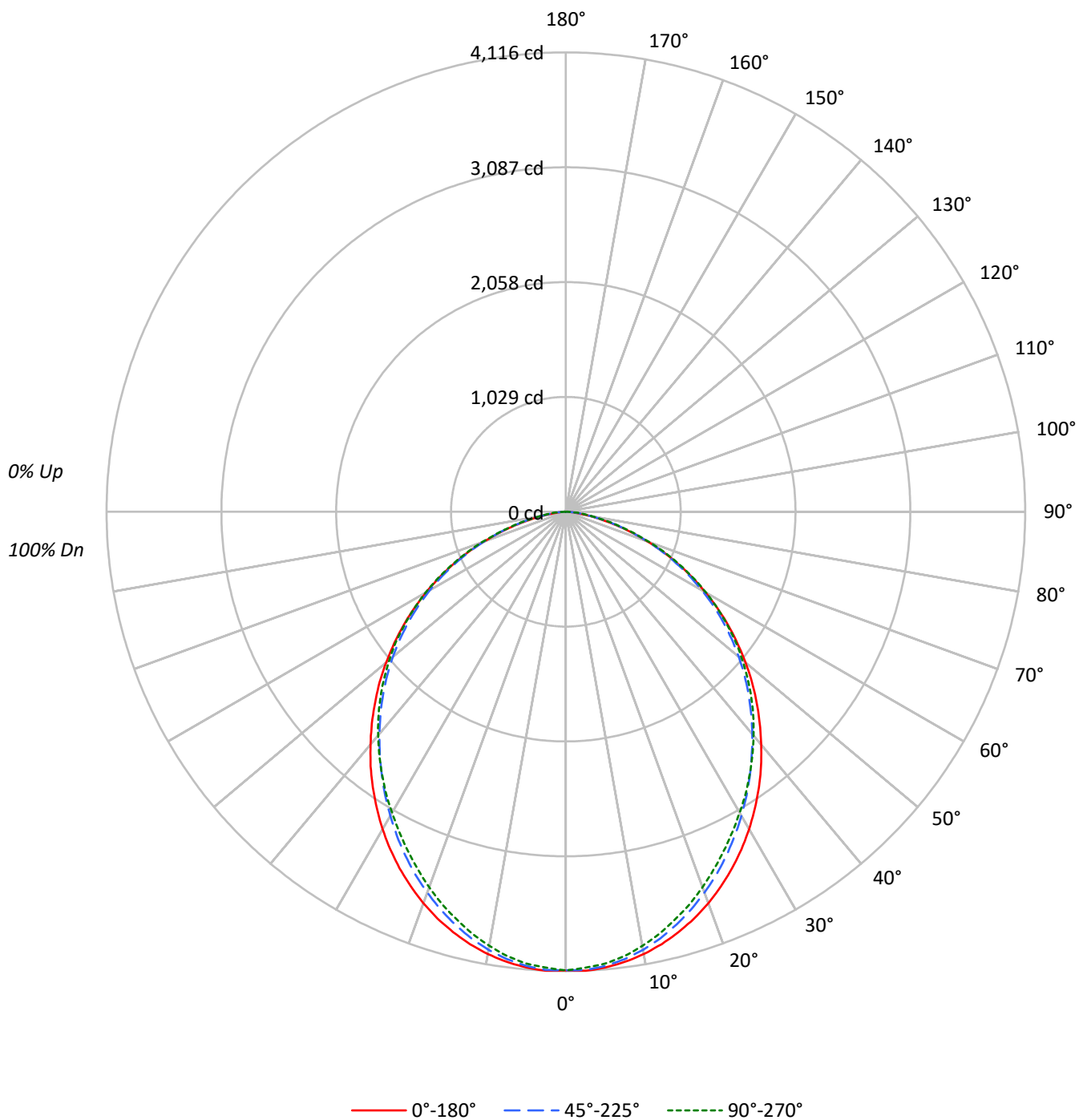
Lumens per Lamp: N/A
Luminaire Lumens: 9935.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 116.5
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	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	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5528	5528	5528
5°	5536	5517	5489
10°	5498	5445	5395
15°	5431	5334	5267
20°	5344	5198	5127
25°	5233	5049	4975
30°	5102	4888	4838
35°	4953	4722	4718
40°	4783	4565	4597
45°	4600	4406	4472
50°	4401	4235	4319
55°	4170	4035	4137
60°	3893	3789	3912
65°	3544	3472	3586
70°	3067	3059	3148
75°	2450	2528	2573
80°	1670	1830	1921
85°	872	1284	1677

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4600 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.1	3.9
10°-20°	1078.8	10.9
20°-30°	1572.8	15.8
30°-40°	1818.9	18.3
40°-50°	1810.7	18.2
50°-60°	1556.6	15.7
60°-70°	1091.2	11.0
70°-80°	516.9	5.2
80°-90°	102.9	1.0
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°	3037.8	30.6
0°-40°	4856.7	48.9
0°-60°	8224.0	82.8
0°-90°	9935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9935.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4109	4109	4109	4109	4109	
5°	4099	4086	4084	4058	4064	389
15°	3899	3870	3830	3780	3782	1099
25°	3525	3477	3401	3349	3351	1623
35°	3016	2953	2875	2859	2872	1885
45°	2418	2359	2315	2332	2350	1865
55°	1778	1730	1720	1749	1764	1587
65°	1113	1085	1090	1113	1126	1101
75°	471	460	486	493	495	507
85°	56	65	83	101	109	83
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4108.7	4108.7	4108.7	4108.7	4108.7
2.5°	4116.5	4105.4	4108.7	4088.0	4088.6
5°	4098.9	4085.6	4084.4	4057.6	4063.7
7.5°	4067.4	4051.2	4042.5	4011.3	4016.5
10°	4024.1	4003.1	3985.7	3946.9	3949.1
12.5°	3968.3	3943.6	3915.2	3869.7	3873.1
15°	3899.1	3870.3	3829.5	3780.3	3781.5
17.5°	3822.6	3790.0	3734.8	3682.0	3687.3
20°	3732.4	3695.5	3630.4	3575.7	3580.4
22.5°	3632.3	3589.7	3520.9	3465.8	3466.6
25°	3524.9	3477.2	3400.9	3349.3	3350.9
27.5°	3408.8	3355.3	3276.0	3228.3	3232.8
30°	3283.7	3226.9	3145.9	3106.7	3113.8
32.5°	3152.2	3093.1	3013.2	2985.3	2997.6
35°	3015.7	2952.6	2874.8	2858.6	2872.2
37.5°	2873.3	2811.0	2737.9	2732.9	2747.0
40°	2723.4	2663.3	2599.0	2601.7	2617.4
42.5°	2572.1	2513.5	2458.7	2469.4	2486.4
45°	2417.6	2359.0	2315.3	2332.0	2350.0
47.5°	2263.5	2205.2	2171.6	2193.0	2209.4
50°	2102.3	2048.4	2023.0	2048.1	2063.1
52.5°	1938.2	1888.1	1872.8	1900.8	1921.3
55°	1777.5	1729.5	1720.0	1749.0	1763.5
57.5°	1611.7	1571.3	1566.5	1593.8	1609.2
60°	1446.5	1408.7	1408.1	1437.2	1453.7
62.5°	1279.6	1245.5	1250.3	1277.8	1290.8
65°	1113.3	1084.7	1090.5	1113.3	1126.4
67.5°	948.6	922.7	934.3	959.5	966.0
70°	779.6	759.8	777.7	796.9	800.2
72.5°	622.9	605.5	627.3	641.0	641.5
75°	471.3	460.5	486.3	492.7	495.0
77.5°	333.4	332.3	351.7	358.7	362.0
80°	215.5	222.5	236.2	246.7	247.9
82.5°	122.0	130.3	144.4	164.9	172.9
85°	56.5	65.1	83.2	100.9	108.6
87.5°	19.0	25.5	35.1	38.2	36.4
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	16.87	18.45	17.23	18.77	19.08	16.95	18.53	17.32	18.85	19.16
	3H	18.34	19.77	18.72	20.09	20.46	18.48	19.90	18.85	20.23	20.59
	4H	18.77	20.11	19.17	20.46	20.84	18.94	20.27	19.33	20.62	21.00
	6H	18.99	20.22	19.40	20.59	20.98	19.19	20.43	19.60	20.79	21.18
	8H	19.02	20.20	19.44	20.59	20.99	19.25	20.43	19.68	20.82	21.22
	12H	19.02	20.15	19.45	20.53	20.96	19.30	20.43	19.73	20.81	21.24
4H	2H	17.41	18.75	17.81	19.10	19.47	17.48	18.82	17.88	19.16	19.54
	3H	19.06	20.18	19.47	20.58	20.98	19.19	20.31	19.60	20.70	21.10
	4H	19.58	20.58	20.01	21.00	21.43	19.75	20.75	20.18	21.17	21.61
	6H	19.87	20.75	20.33	21.19	21.65	20.09	20.97	20.55	21.41	21.87
	8H	19.92	20.74	20.38	21.18	21.65	20.19	21.00	20.65	21.45	21.91
	12H	19.94	20.67	20.42	21.14	21.61	20.26	20.99	20.74	21.46	21.93
8H	4H	19.78	20.59	20.24	21.04	21.50	19.93	20.75	20.39	21.19	21.66
	6H	20.13	20.81	20.63	21.30	21.77	20.35	21.02	20.84	21.51	21.98
	8H	20.21	20.81	20.72	21.32	21.81	20.48	21.08	20.99	21.59	22.08
	12H	20.25	20.78	20.76	21.27	21.84	20.60	21.13	21.11	21.62	22.19
12H	4H	19.78	20.51	20.26	20.99	21.46	19.93	20.66	20.41	21.14	21.61
	6H	20.14	20.74	20.65	21.25	21.74	20.35	20.95	20.86	21.46	21.95
	8H	20.25	20.78	20.76	21.28	21.84	20.52	21.05	21.03	21.54	22.11