

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: P1498482

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498482
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-2-120-2LO-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

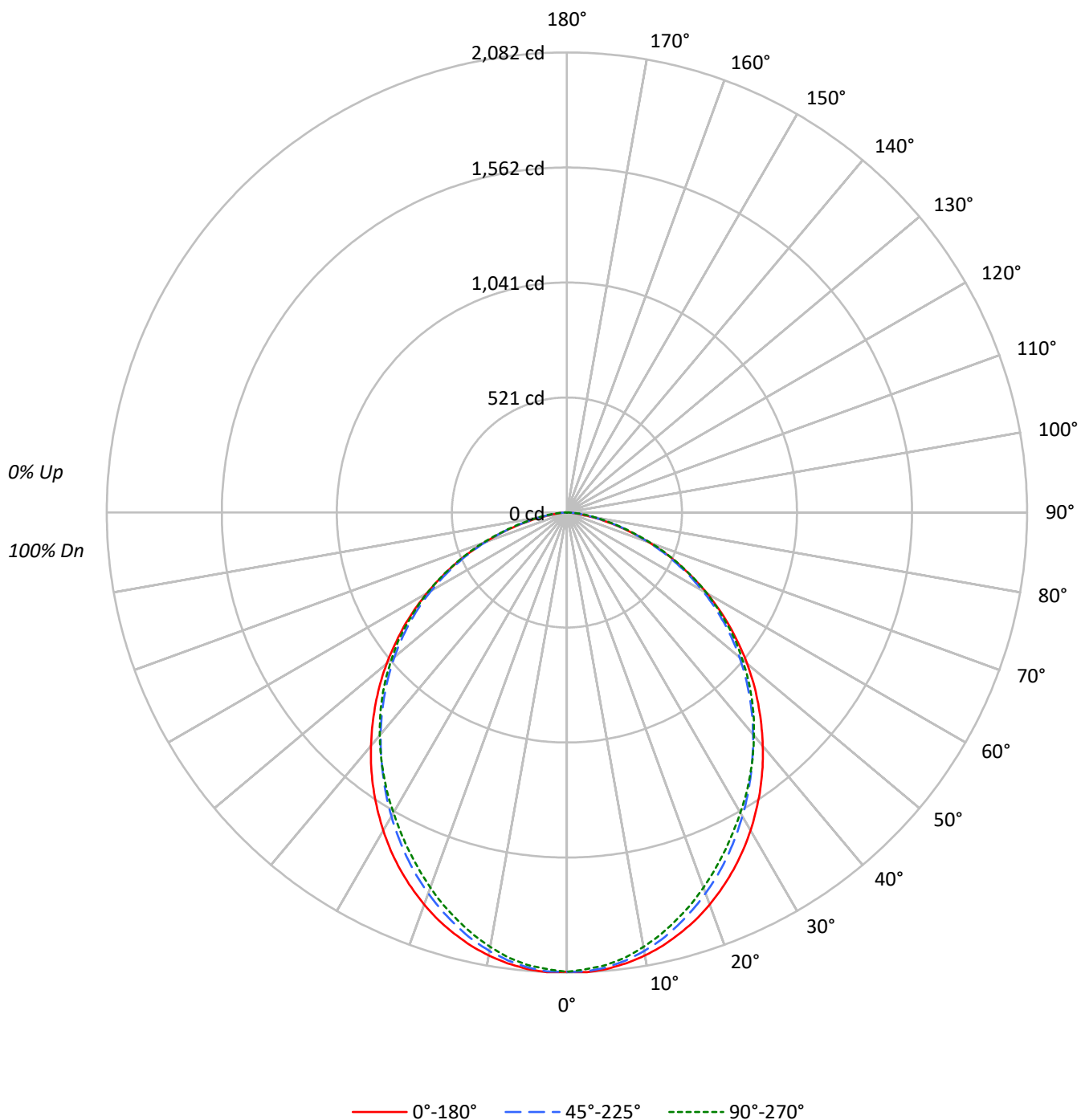
Lumens per Lamp: N/A
Luminaire Lumens: 5017.0 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 59.3
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	84	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°	5593	5593	5593
5°	5601	5581	5552
10°	5563	5508	5455
15°	5496	5393	5321
20°	5408	5253	5175
25°	5296	5099	5017
30°	5164	4934	4876
35°	5014	4764	4751
40°	4842	4604	4626
45°	4657	4441	4496
50°	4456	4267	4339
55°	4223	4064	4156
60°	3943	3816	3933
65°	3591	3498	3617
70°	3109	3090	3192
75°	2486	2567	2634
80°	1697	1880	1994
85°	889	1334	1751

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4657 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.3	3.9
10°-20°	545.3	10.9
20°-30°	794.4	15.8
30°-40°	918.0	18.3
40°-50°	913.1	18.2
50°-60°	784.5	15.6
60°-70°	550.7	11.0
70°-80°	262.6	5.2
80°-90°	53.1	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°	1535.0	30.6
0°-40°	2453.0	48.9
0°-60°	4150.6	82.7
0°-90°	5017.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5017.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2079	2079	2079	2079	2079	
5°	2074	2067	2066	2052	2055	197
15°	1973	1958	1936	1910	1910	556
25°	1784	1758	1717	1690	1690	821
35°	1526	1493	1450	1440	1446	954
45°	1224	1192	1167	1173	1182	944
55°	900	874	866	879	886	804
65°	564	548	549	561	568	558
75°	239	233	247	252	253	257
85°	29	33	43	53	57	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2078.6	2078.6	2078.6	2078.6	2078.6
2.5°	2082.5	2077.1	2078.6	2067.8	2068.3
5°	2073.6	2067.1	2066.1	2052.1	2055.3
7.5°	2057.7	2049.6	2044.6	2028.2	2030.8
10°	2035.8	2025.2	2015.6	1995.1	1996.2
12.5°	2007.6	1995.0	1979.5	1955.5	1957.0
15°	1972.7	1957.9	1935.8	1909.5	1909.9
17.5°	1934.0	1917.0	1887.3	1859.2	1861.6
20°	1888.5	1869.2	1834.2	1804.9	1807.0
22.5°	1837.9	1815.6	1778.4	1748.9	1748.9
25°	1783.6	1758.4	1717.4	1689.5	1689.8
27.5°	1725.0	1696.8	1653.8	1627.9	1629.7
30°	1661.8	1631.7	1587.8	1566.1	1569.1
32.5°	1595.2	1563.9	1520.5	1504.5	1509.9
35°	1526.2	1492.6	1450.3	1440.0	1446.2
37.5°	1454.2	1421.1	1380.9	1376.3	1382.6
40°	1378.5	1346.4	1310.5	1309.8	1317.0
42.5°	1301.9	1270.5	1239.5	1242.8	1250.5
45°	1223.8	1192.3	1166.9	1173.3	1181.5
47.5°	1145.8	1114.6	1094.3	1102.9	1110.4
50°	1064.4	1035.3	1019.2	1029.7	1036.4
52.5°	981.3	954.2	943.3	955.5	965.0
55°	900.1	874.0	866.2	879.0	885.8
57.5°	816.1	794.0	788.9	801.2	808.4
60°	732.6	711.8	709.0	722.7	730.8
62.5°	648.1	629.2	629.6	643.1	649.9
65°	564.0	548.0	549.3	561.3	568.0
67.5°	480.6	466.2	471.0	484.7	488.2
70°	395.2	383.7	392.7	403.5	405.7
72.5°	315.8	305.9	317.5	325.8	326.5
75°	239.1	232.8	246.9	251.6	253.3
77.5°	169.2	168.2	179.4	184.2	186.4
80°	109.5	113.0	121.3	127.7	128.7
82.5°	62.1	66.5	74.7	85.7	90.1
85°	28.8	33.4	43.2	52.6	56.7
87.5°	9.7	13.1	18.3	19.9	18.9
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	16.91	18.50	17.28	18.81	19.12	16.95	18.54	17.32	18.85	19.17
	3H	18.39	19.81	18.76	20.14	20.50	18.49	19.92	18.87	20.25	20.61
	4H	18.82	20.16	19.22	20.51	20.88	18.97	20.31	19.37	20.65	21.03
	6H	19.03	20.27	19.45	20.64	21.03	19.23	20.47	19.65	20.84	21.23
	8H	19.06	20.24	19.49	20.63	21.03	19.30	20.49	19.73	20.87	21.27
	12H	19.06	20.19	19.49	20.58	21.01	19.35	20.48	19.78	20.86	21.29
4H	2H	17.45	18.79	17.85	19.13	19.51	17.48	18.82	17.88	19.17	19.55
	3H	19.10	20.22	19.51	20.62	21.02	19.21	20.33	19.62	20.73	21.13
	4H	19.62	20.62	20.05	21.04	21.48	19.79	20.79	20.22	21.21	21.64
	6H	19.92	20.79	20.37	21.23	21.69	20.15	21.02	20.60	21.46	21.92
	8H	19.97	20.78	20.43	21.23	21.69	20.25	21.06	20.71	21.51	21.97
	12H	19.98	20.71	20.46	21.19	21.66	20.32	21.05	20.80	21.53	22.00
8H	4H	19.82	20.64	20.28	21.08	21.55	19.97	20.79	20.43	21.23	21.70
	6H	20.18	20.85	20.68	21.34	21.82	20.40	21.08	20.90	21.57	22.04
	8H	20.26	20.86	20.77	21.37	21.86	20.55	21.15	21.06	21.66	22.15
	12H	20.30	20.83	20.81	21.32	21.89	20.67	21.21	21.18	21.70	22.26
12H	4H	19.83	20.56	20.31	21.03	21.51	19.97	20.70	20.45	21.18	21.65
	6H	20.19	20.79	20.70	21.30	21.79	20.41	21.01	20.92	21.52	22.01
	8H	20.30	20.84	20.81	21.33	21.89	20.59	21.12	21.10	21.61	22.18