

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: P1498410

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498410
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-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

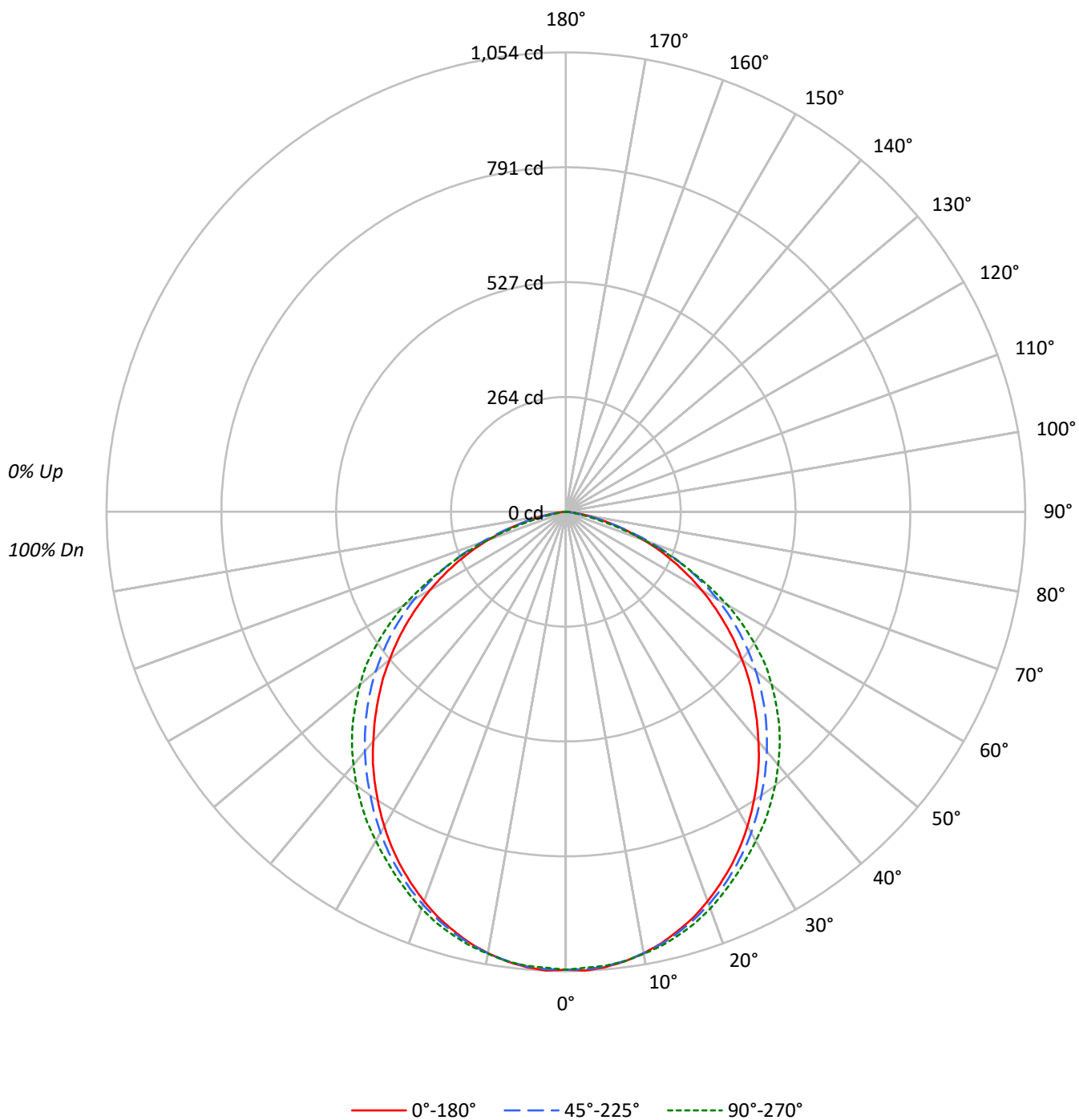
Lumens per Lamp: N/A
Luminaire Lumens: 2652.0 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 24.5
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	102	98	107	103	100	97	99	96	93		95	93	91		92
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72
4	84	73	64	58	82	71	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	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	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2827	2827	2827
5°	2832	2827	2824
10°	2810	2810	2814
15°	2773	2783	2800
20°	2724	2746	2775
25°	2663	2698	2738
30°	2590	2643	2709
35°	2508	2578	2689
40°	2415	2520	2663
45°	2316	2457	2634
50°	2209	2384	2581
55°	2087	2288	2484
60°	1939	2160	2306
65°	1749	1962	1974
70°	1493	1633	1526
75°	1173	1183	953
80°	762	609	366
85°	352	232	188

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2634 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	3.7
10°-20°	281.4	10.6
20°-30°	418.1	15.8
30°-40°	492.4	18.6
40°-50°	498.9	18.8
50°-60°	434.2	16.4
60°-70°	295.9	11.2
70°-80°	118.3	4.5
80°-90°	13.5	0.5
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°	798.7	30.1
0°-40°	1291.2	48.7
0°-60°	2224.3	83.9
0°-90°	2652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2652.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1048	1042	1047	1045	1046	99
15°	995	991	999	1002	1005	281
25°	897	897	909	916	922	413
35°	763	767	785	806	818	477
45°	609	616	646	676	692	470
55°	445	454	488	518	529	397
65°	275	288	308	309	310	272
75°	113	120	114	98	92	121
85°	11	10	8	7	6	18
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.6	1050.6	1050.6	1050.6	1050.6
2.5°	1053.5	1046.7	1050.6	1049.9	1047.0
5°	1048.5	1042.4	1046.7	1045.3	1045.6
7.5°	1040.3	1034.6	1039.2	1038.8	1039.9
10°	1028.5	1022.8	1028.5	1028.8	1029.9
12.5°	1013.8	1008.9	1015.7	1017.1	1019.6
15°	995.3	991.1	998.9	1002.5	1004.9
17.5°	975.4	972.5	980.3	985.0	988.9
20°	951.1	949.7	959.0	963.5	968.9
22.5°	924.7	924.0	935.1	940.8	946.1
25°	896.8	897.2	908.7	916.1	922.2
27.5°	866.2	866.9	880.8	889.7	897.2
30°	833.4	835.2	850.5	862.6	871.9
32.5°	798.7	802.0	818.4	835.2	846.9
35°	763.4	767.0	784.9	805.5	818.4
37.5°	727.1	731.0	751.7	776.0	789.5
40°	687.5	693.5	717.4	744.2	758.1
42.5°	648.5	655.3	682.1	711.4	726.4
45°	608.6	616.1	645.7	676.1	692.1
47.5°	570.1	576.5	608.2	640.0	654.3
50°	527.7	536.2	569.4	601.1	616.4
52.5°	487.0	495.2	529.1	561.5	577.3
55°	444.9	454.5	487.7	518.4	529.4
57.5°	402.4	413.5	445.6	470.9	480.5
60°	360.3	371.4	401.3	421.3	428.5
62.5°	317.8	329.3	355.7	367.8	369.3
65°	274.7	287.6	308.2	308.6	310.0
67.5°	233.7	244.4	259.3	255.1	252.9
70°	189.8	201.5	207.6	199.1	194.0
72.5°	150.9	159.4	158.4	145.9	139.9
75°	112.8	119.5	113.8	97.8	91.7
77.5°	78.1	83.8	72.4	57.4	51.4
80°	49.2	51.7	39.3	27.8	23.6
82.5°	26.4	26.0	16.8	13.9	12.9
85°	11.4	10.3	7.5	6.8	6.1
87.5°	3.9	3.5	2.8	2.5	2.1
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	14.53	16.11	14.89	16.42	16.74	15.49	17.07	15.85	17.38	17.70
	3H	15.95	17.37	16.33	17.70	18.06	16.68	18.10	17.05	18.42	18.79
	4H	16.34	17.67	16.74	18.02	18.40	16.89	18.22	17.29	18.57	18.95
	6H	16.51	17.75	16.93	18.11	18.50	16.91	18.14	17.32	18.51	18.90
	8H	16.53	17.70	16.95	18.09	18.49	16.89	18.06	17.31	18.45	18.85
	12H	16.52	17.64	16.95	18.02	18.45	16.86	17.98	17.29	18.37	18.79
4H	2H	15.19	16.52	15.59	16.87	17.25	15.96	17.29	16.36	17.64	18.02
	3H	16.77	17.87	17.18	18.27	18.67	17.31	18.42	17.72	18.81	19.21
	4H	17.24	18.23	17.67	18.65	19.09	17.58	18.57	18.01	18.99	19.42
	6H	17.48	18.34	17.94	18.78	19.24	17.63	18.49	18.09	18.93	19.39
	8H	17.50	18.31	17.97	18.75	19.22	17.61	18.41	18.07	18.85	19.32
	12H	17.50	18.22	17.98	18.70	19.17	17.59	18.30	18.07	18.78	19.25
8H	4H	17.38	18.18	17.84	18.62	19.09	17.69	18.50	18.16	18.94	19.41
	6H	17.65	18.31	18.15	18.80	19.28	17.75	18.41	18.25	18.90	19.38
	8H	17.69	18.28	18.20	18.79	19.28	17.73	18.32	18.24	18.83	19.32
	12H	17.70	18.22	18.21	18.72	19.28	17.72	18.24	18.22	18.73	19.29
12H	4H	17.36	18.08	17.84	18.55	19.02	17.68	18.40	18.16	18.88	19.35
	6H	17.62	18.22	18.14	18.72	19.21	17.73	18.32	18.24	18.83	19.32
	8H	17.69	18.21	18.20	18.70	19.26	17.73	18.25	18.24	18.74	19.31