

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: P1498416

Luminaire Tested: MAE-G-2-120-2LO-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498416
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-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

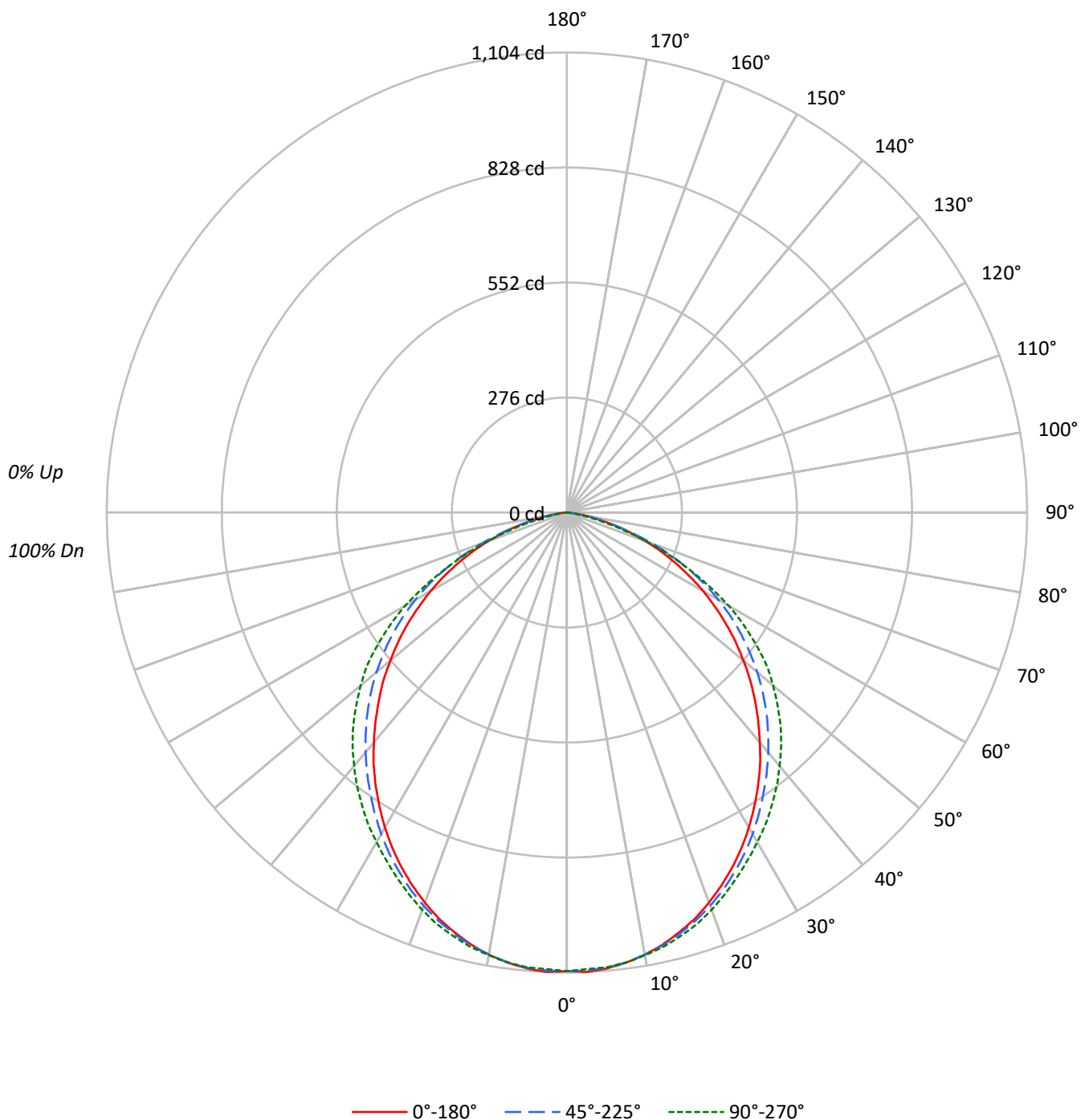
Lumens per Lamp: N/A
Luminaire Lumens: 2778.0 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	102	98	107	103	100	97	99	96	93	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	58	69	62	57	67	61	56	65	59	55	53		
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2961	2961	2961
5°	2967	2962	2959
10°	2944	2944	2948
15°	2905	2915	2933
20°	2853	2877	2906
25°	2789	2826	2868
30°	2713	2768	2838
35°	2627	2701	2816
40°	2530	2640	2790
45°	2426	2574	2759
50°	2314	2497	2703
55°	2186	2397	2601
60°	2032	2263	2415
65°	1833	2056	2068
70°	1564	1711	1600
75°	1228	1239	999
80°	798	637	383
85°	371	241	198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2759 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.9	3.7
10°-20°	294.8	10.6
20°-30°	437.9	15.8
30°-40°	515.8	18.6
40°-50°	522.6	18.8
50°-60°	454.9	16.4
60°-70°	310.0	11.2
70°-80°	123.9	4.5
80°-90°	14.2	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°	836.7	30.1
0°-40°	1352.5	48.7
0°-60°	2330.0	83.9
0°-90°	2778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2778.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1100	1100	1100	1100	1100	
5°	1098	1092	1096	1095	1095	104
15°	1043	1038	1046	1050	1053	294
25°	939	940	952	960	966	432
35°	800	804	822	844	857	500
45°	638	645	676	708	725	492
55°	466	476	511	543	554	416
65°	288	301	323	323	325	285
75°	118	125	119	102	96	127
85°	12	11	8	7	6	19
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1100.5	1100.5	1100.5	1100.5	1100.5
2.5°	1103.6	1096.5	1100.5	1099.8	1096.8
5°	1098.3	1091.9	1096.5	1095.0	1095.3
7.5°	1089.7	1083.7	1088.6	1088.2	1089.4
10°	1077.4	1071.4	1077.4	1077.7	1078.9
12.5°	1062.0	1056.8	1063.9	1065.4	1068.0
15°	1042.6	1038.1	1046.3	1050.1	1052.7
17.5°	1021.7	1018.7	1026.9	1031.8	1035.9
20°	996.3	994.8	1004.5	1009.3	1014.9
22.5°	968.6	967.9	979.5	985.4	991.1
25°	939.4	939.9	951.8	959.7	966.0
27.5°	907.3	908.1	922.7	932.0	939.9
30°	873.0	874.9	890.9	903.6	913.3
32.5°	836.7	840.1	857.3	874.9	887.2
35°	799.7	803.5	822.2	843.8	857.3
37.5°	761.6	765.7	787.4	812.8	827.0
40°	720.2	726.4	751.5	779.5	794.1
42.5°	679.3	686.5	714.5	745.2	760.9
45°	637.6	645.4	676.4	708.2	724.9
47.5°	597.2	603.9	637.1	670.4	685.4
50°	552.7	561.6	596.4	629.7	645.7
52.5°	510.1	518.7	554.2	588.2	604.7
55°	466.0	476.1	510.9	543.0	554.5
57.5°	421.6	433.1	466.7	493.3	503.3
60°	377.5	389.0	420.4	441.3	448.8
62.5°	332.9	344.9	372.6	385.3	386.8
65°	287.8	301.2	322.9	323.3	324.8
67.5°	244.8	256.0	271.7	267.2	265.0
70°	198.8	211.1	217.5	208.6	203.3
72.5°	158.1	167.0	165.9	152.8	146.5
75°	118.1	125.2	119.2	102.4	96.1
77.5°	81.9	87.8	75.8	60.1	53.9
80°	51.5	54.2	41.1	29.2	24.7
82.5°	27.7	27.3	17.6	14.5	13.5
85°	12.0	10.8	7.8	7.1	6.4
87.5°	4.1	3.7	3.0	2.6	2.2
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	14.69	16.27	15.05	16.58	16.90	15.65	17.23	16.01	17.55	17.86
	3H	16.11	17.53	16.49	17.86	18.22	16.84	18.26	17.22	18.59	18.95
	4H	16.50	17.83	16.90	18.18	18.56	17.05	18.39	17.45	18.73	19.11
	6H	16.68	17.91	17.09	18.27	18.66	17.07	18.30	17.48	18.67	19.06
	8H	16.69	17.86	17.12	18.25	18.65	17.05	18.22	17.47	18.61	19.01
	12H	16.68	17.80	17.11	18.18	18.61	17.02	18.15	17.45	18.53	18.96
4H	2H	15.35	16.68	15.75	17.03	17.41	16.12	17.46	16.52	17.80	18.18
	3H	16.93	18.03	17.34	18.43	18.83	17.47	18.58	17.88	18.98	19.38
	4H	17.40	18.39	17.83	18.81	19.25	17.74	18.73	18.17	19.15	19.59
	6H	17.64	18.50	18.10	18.95	19.40	17.79	18.65	18.25	19.10	19.55
	8H	17.67	18.47	18.13	18.91	19.38	17.77	18.57	18.23	19.01	19.48
	12H	17.66	18.38	18.15	18.86	19.33	17.75	18.46	18.23	18.94	19.41
8H	4H	17.54	18.34	18.00	18.79	19.25	17.86	18.66	18.32	19.10	19.57
	6H	17.81	18.48	18.31	18.97	19.44	17.92	18.58	18.41	19.07	19.54
	8H	17.85	18.44	18.37	18.95	19.44	17.89	18.48	18.40	18.99	19.48
	12H	17.87	18.39	18.37	18.88	19.44	17.88	18.40	18.39	18.89	19.45
12H	4H	17.52	18.24	18.00	18.72	19.19	17.84	18.56	18.33	19.04	19.51
	6H	17.78	18.38	18.30	18.89	19.37	17.89	18.48	18.40	18.99	19.48
	8H	17.85	18.37	18.36	18.86	19.42	17.89	18.41	18.40	18.90	19.47