

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: P1498032

Luminaire Tested: MAE-G-2-120-1HI-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498032
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-2-120-1HI-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

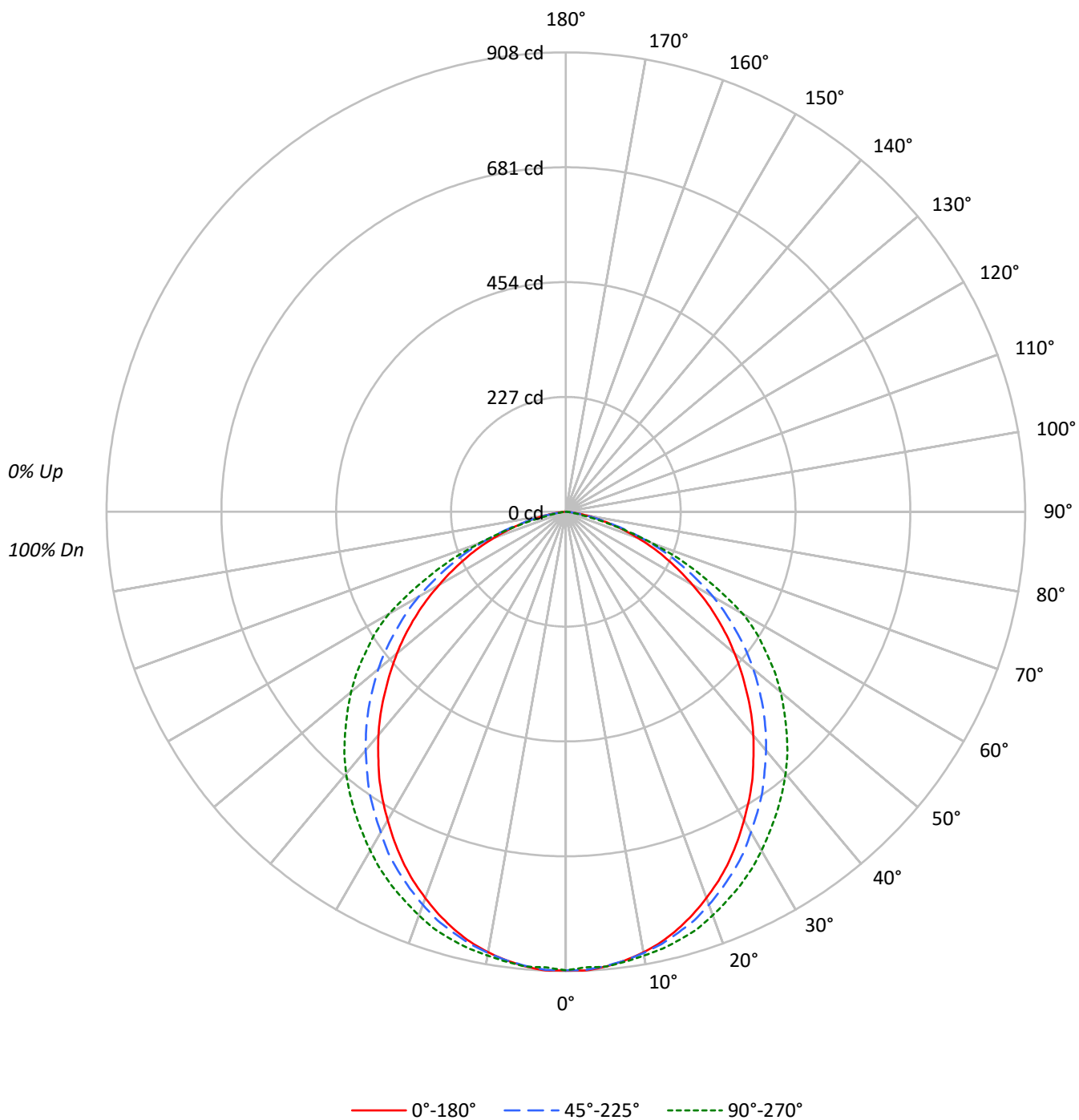
Lumens per Lamp: N/A
Luminaire Lumens: 2282.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 22.6
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	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	92	82	74	68	90	80	73	67	77	71	66		75	70	65		72
4	84	73	65	58	82	72	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		55	48	43		53
7	67	54	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	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2439	2439	2439
5°	2438	2434	2438
10°	2416	2420	2434
15°	2380	2398	2438
20°	2327	2368	2431
25°	2265	2327	2420
30°	2188	2274	2403
35°	2112	2224	2386
40°	2025	2162	2373
45°	1926	2100	2348
50°	1824	2026	2321
55°	1707	1927	2264
60°	1558	1811	2176
65°	1395	1619	1868
70°	1190	1365	1426
75°	922	990	800
80°	606	525	284
85°	321	241	161

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2348 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	3.8
10°-20°	243.3	10.7
20°-30°	361.7	15.9
30°-40°	425.3	18.6
40°-50°	429.2	18.8
50°-60°	372.7	16.3
60°-70°	253.7	11.1
70°-80°	98.8	4.3
80°-90°	11.8	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°	690.6	30.3
0°-40°	1115.8	48.9
0°-60°	1917.7	84.0
0°-90°	2282.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2282.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	906	906	906	906	906	
5°	902	901	901	901	902	86
15°	854	856	861	870	875	241
25°	763	767	784	803	815	351
35°	643	651	677	708	726	402
45°	506	519	552	595	617	391
55°	364	376	411	458	483	325
65°	219	230	254	282	293	218
75°	89	94	95	86	77	96
85°	10	10	8	6	5	15
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	906.4	906.4	906.4	906.4	906.4
2.5°	907.7	907.7	906.4	902.5	901.2
5°	902.5	901.2	901.2	901.2	902.5
7.5°	894.7	894.7	894.7	896.0	897.3
10°	884.3	884.3	885.6	888.2	890.8
12.5°	871.2	872.5	875.1	880.3	884.3
15°	854.3	855.6	860.8	869.9	875.1
17.5°	834.7	838.6	846.4	856.9	864.7
20°	812.5	816.4	826.9	839.9	849.0
22.5°	789.0	793.0	806.0	821.7	832.1
25°	763.0	766.9	783.8	803.4	815.1
27.5°	734.3	739.5	760.4	781.2	795.6
30°	704.3	710.8	731.7	757.7	773.4
32.5°	674.3	682.1	704.3	734.3	749.9
35°	643.0	650.8	676.9	708.2	726.4
37.5°	609.1	618.2	645.6	683.4	701.7
40°	576.5	585.6	615.6	656.0	675.6
42.5°	542.6	553.0	584.3	626.0	648.2
45°	506.0	519.1	551.7	594.7	616.9
47.5°	470.8	482.6	517.8	562.1	585.6
50°	435.6	448.6	483.9	529.5	554.3
52.5°	400.4	412.1	448.6	494.3	520.4
55°	363.9	375.6	410.8	457.8	482.6
57.5°	327.4	341.7	374.3	420.0	447.3
60°	289.5	302.6	336.5	382.1	404.3
62.5°	254.3	266.1	294.8	337.8	348.2
65°	219.1	229.5	254.3	281.7	293.4
67.5°	186.5	194.3	216.5	234.8	240.0
70°	151.3	159.1	173.5	183.9	181.3
72.5°	120.0	125.2	134.3	133.0	126.5
75°	88.7	93.9	95.2	86.1	76.9
77.5°	62.6	65.2	61.3	48.3	39.1
80°	39.1	40.4	33.9	20.9	18.3
82.5°	22.2	22.2	15.7	13.0	10.4
85°	10.4	10.4	7.8	6.5	5.2
87.5°	3.9	3.9	2.6	2.6	2.6
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	13.70	15.28	14.07	15.59	15.91	15.28	16.86	15.65	17.17	17.49
	3H	15.04	16.46	15.42	16.78	17.14	16.55	17.97	16.93	18.30	18.66
	4H	15.41	16.74	15.80	17.08	17.46	16.75	18.08	17.14	18.42	18.80
	6H	15.57	16.80	15.98	17.16	17.55	16.74	17.97	17.15	18.34	18.73
	8H	15.58	16.75	16.01	17.14	17.54	16.72	17.89	17.14	18.28	18.68
	12H	15.58	16.70	16.01	17.08	17.51	16.69	17.81	17.12	18.19	18.62
4H	2H	14.37	15.70	14.77	16.04	16.42	15.66	16.99	16.06	17.34	17.71
	3H	15.86	16.97	16.27	17.36	17.76	17.10	18.20	17.51	18.60	19.00
	4H	16.31	17.30	16.74	17.71	18.15	17.35	18.34	17.78	18.75	19.19
	6H	16.53	17.39	16.99	17.83	18.29	17.38	18.24	17.83	18.68	19.14
	8H	16.56	17.36	17.02	17.80	18.27	17.35	18.15	17.81	18.59	19.06
	12H	16.56	17.27	17.04	17.75	18.22	17.33	18.04	17.81	18.52	18.99
8H	4H	16.46	17.27	16.93	17.71	18.18	17.43	18.23	17.90	18.68	19.14
	6H	16.72	17.38	17.22	17.87	18.35	17.47	18.13	17.96	18.62	19.09
	8H	16.77	17.35	17.28	17.86	18.35	17.44	18.03	17.95	18.54	19.03
	12H	16.79	17.31	17.30	17.80	18.36	17.43	17.94	17.93	18.44	19.00
12H	4H	16.45	17.16	16.93	17.64	18.11	17.42	18.13	17.90	18.61	19.08
	6H	16.69	17.29	17.21	17.79	18.28	17.44	18.03	17.95	18.54	19.03
	8H	16.76	17.28	17.27	17.77	18.34	17.44	17.96	17.95	18.45	19.01