

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: P1498040

Luminaire Tested: MAE-G-2-120-1HI-40-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498040
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-40-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

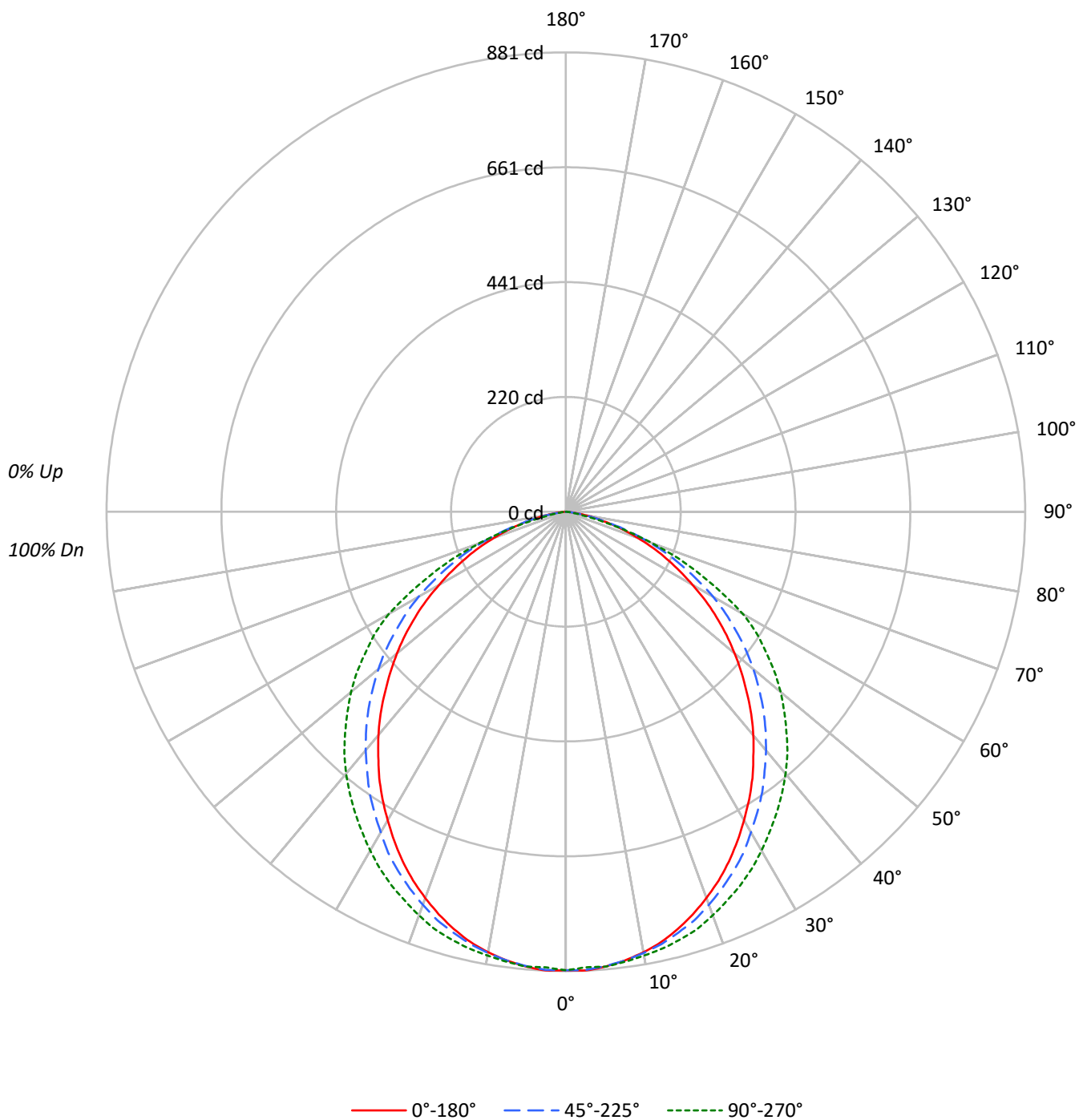
Lumens per Lamp: N/A
Luminaire Lumens: 2214.0 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1498040

CATALOG NUMBER: MAE-G-2-120-1HI-40-WDDCPH

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°	2366	2366	2366
5°	2365	2362	2365
10°	2344	2348	2361
15°	2309	2327	2365
20°	2257	2297	2359
25°	2198	2258	2348
30°	2123	2206	2332
35°	2049	2157	2315
40°	1965	2098	2303
45°	1869	2037	2278
50°	1769	1965	2251
55°	1656	1870	2197
60°	1512	1757	2111
65°	1354	1571	1813
70°	1155	1324	1384
75°	894	961	777
80°	589	510	274
85°	312	235	157

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2278 cd/sqm

TEST NUMBER: P1498040

CATALOG NUMBER: MAE-G-2-120-1HI-40-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	3.8
10°-20°	236.0	10.7
20°-30°	350.9	15.9
30°-40°	412.6	18.6
40°-50°	416.4	18.8
50°-60°	361.6	16.3
60°-70°	246.1	11.1
70°-80°	95.9	4.3
80°-90°	11.5	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°	670.0	30.3
0°-40°	1082.6	48.9
0°-60°	1860.6	84.0
0°-90°	2214.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2214.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	879	879	879	879	879	
5°	876	874	874	874	876	83
15°	829	830	835	844	849	233
25°	740	744	760	780	791	340
35°	624	631	657	687	705	390
45°	491	504	535	577	598	379
55°	353	364	399	444	468	315
65°	213	223	247	273	285	211
75°	86	91	92	84	75	94
85°	10	10	8	6	5	15
90°	0	0	0	0	0	

TEST NUMBER: P1498040

CATALOG NUMBER: MAE-G-2-120-1HI-40-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	879.4	879.4	879.4	879.4	879.4
2.5°	880.7	880.7	879.4	875.6	874.4
5°	875.6	874.4	874.4	874.4	875.6
7.5°	868.0	868.0	868.0	869.3	870.6
10°	857.9	857.9	859.2	861.7	864.2
12.5°	845.3	846.5	849.0	854.1	857.9
15°	828.8	830.1	835.1	844.0	849.0
17.5°	809.8	813.6	821.2	831.3	838.9
20°	788.3	792.1	802.2	814.9	823.7
22.5°	765.5	769.3	782.0	797.2	807.3
25°	740.2	744.0	760.5	779.5	790.8
27.5°	712.4	717.5	737.7	757.9	771.9
30°	683.3	689.6	709.9	735.2	750.4
32.5°	654.2	661.8	683.3	712.4	727.6
35°	623.8	631.4	656.7	687.1	704.8
37.5°	590.9	599.8	626.3	663.0	680.8
40°	559.3	568.1	597.2	636.5	655.5
42.5°	526.4	536.5	566.9	607.4	628.9
45°	491.0	503.6	535.2	577.0	598.5
47.5°	456.8	468.2	502.3	545.4	568.1
50°	422.6	435.3	469.4	513.7	537.8
52.5°	388.5	399.9	435.3	479.6	504.9
55°	353.0	364.4	398.6	444.1	468.2
57.5°	317.6	331.5	363.2	407.4	434.0
60°	280.9	293.6	326.5	370.7	392.3
62.5°	246.7	258.1	286.0	327.7	337.8
65°	212.6	222.7	246.7	273.3	284.7
67.5°	180.9	188.5	210.0	227.8	232.8
70°	146.8	154.4	168.3	178.4	175.9
72.5°	116.4	121.5	130.3	129.1	122.7
75°	86.0	91.1	92.4	83.5	74.7
77.5°	60.7	63.3	59.5	46.8	38.0
80°	38.0	39.2	32.9	20.2	17.7
82.5°	21.5	21.5	15.2	12.7	10.1
85°	10.1	10.1	7.6	6.3	5.1
87.5°	3.8	3.8	2.5	2.5	2.5
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	13.60	15.18	13.96	15.49	15.80	15.18	16.75	15.54	17.07	17.38
	3H	14.93	16.35	15.31	16.68	17.04	16.44	17.86	16.82	18.19	18.55
	4H	15.30	16.63	15.70	16.98	17.35	16.64	17.97	17.04	18.32	18.70
	6H	15.46	16.69	15.88	17.06	17.45	16.64	17.87	17.05	18.23	18.62
	8H	15.48	16.65	15.90	17.04	17.44	16.61	17.78	17.04	18.17	18.57
	12H	15.47	16.59	15.90	16.97	17.40	16.59	17.71	17.02	18.09	18.52
4H	2H	14.26	15.59	14.66	15.94	16.32	15.55	16.88	15.95	17.23	17.61
	3H	15.76	16.86	16.17	17.26	17.66	16.99	18.09	17.40	18.49	18.89
	4H	16.20	17.19	16.63	17.61	18.04	17.24	18.23	17.68	18.65	19.09
	6H	16.43	17.29	16.88	17.73	18.19	17.27	18.13	17.73	18.57	19.03
	8H	16.45	17.25	16.91	17.70	18.16	17.24	18.05	17.71	18.49	18.96
	12H	16.45	17.17	16.94	17.65	18.12	17.22	17.94	17.70	18.42	18.89
8H	4H	16.36	17.16	16.82	17.60	18.07	17.33	18.13	17.79	18.57	19.04
	6H	16.62	17.28	17.11	17.77	18.24	17.36	18.02	17.86	18.51	18.99
	8H	16.66	17.25	17.17	17.76	18.25	17.34	17.92	17.85	18.43	18.92
	12H	16.68	17.20	17.19	17.69	18.26	17.32	17.84	17.83	18.33	18.89
12H	4H	16.34	17.06	16.82	17.53	18.00	17.31	18.03	17.80	18.51	18.98
	6H	16.59	17.18	17.10	17.69	18.18	17.33	17.92	17.85	18.43	18.92
	8H	16.66	17.18	17.17	17.67	18.23	17.33	17.85	17.84	18.34	18.91