

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: P1498043

Luminaire Tested: MAE-G-2-120-1HI-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498043
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-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

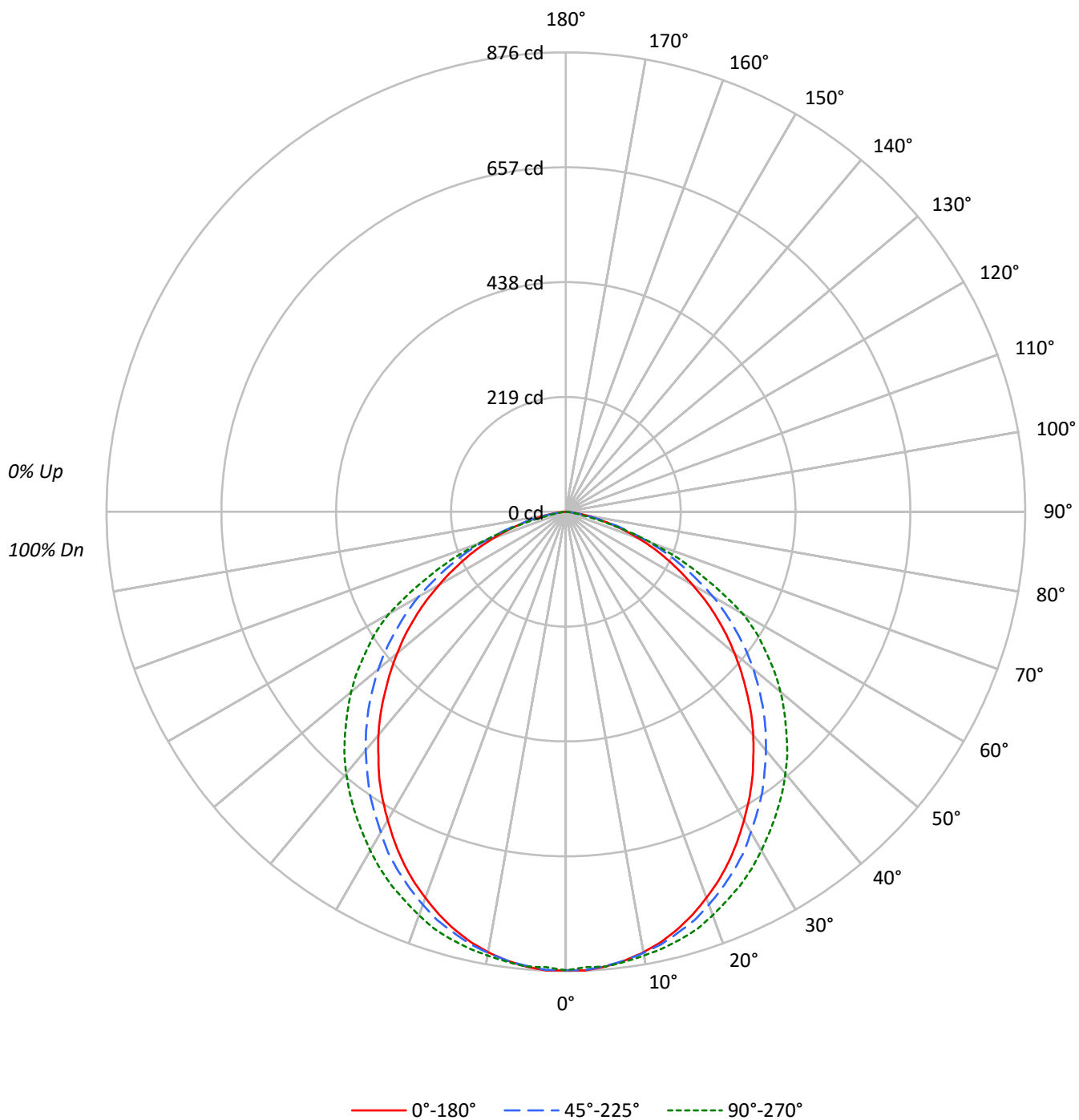
Lumens per Lamp: N/A
Luminaire Lumens: 2201.0 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	2353	2353	2353
5°	2351	2348	2351
10°	2331	2334	2348
15°	2295	2313	2352
20°	2244	2284	2345
25°	2185	2245	2334
30°	2111	2193	2318
35°	2037	2145	2302
40°	1953	2086	2289
45°	1858	2025	2264
50°	1759	1954	2238
55°	1647	1859	2183
60°	1503	1746	2099
65°	1345	1562	1802
70°	1148	1316	1376
75°	889	954	771
80°	584	507	273
85°	312	232	154

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2264 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	3.8
10°-20°	234.6	10.7
20°-30°	348.9	15.9
30°-40°	410.2	18.6
40°-50°	414.0	18.8
50°-60°	359.4	16.3
60°-70°	244.6	11.1
70°-80°	95.3	4.3
80°-90°	11.4	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°	666.0	30.3
0°-40°	1076.2	48.9
0°-60°	1849.6	84.0
0°-90°	2201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2201.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	874	874	874	874	874	
5°	870	869	869	869	870	83
15°	824	825	830	839	844	232
25°	736	740	756	775	786	338
35°	620	628	653	683	701	387
45°	488	501	532	574	595	377
55°	351	362	396	442	465	313
65°	211	221	245	272	283	210
75°	86	91	92	83	74	93
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°	874.3	874.3	874.3	874.3	874.3
2.5°	875.5	875.5	874.3	870.5	869.2
5°	870.5	869.2	869.2	869.2	870.5
7.5°	862.9	862.9	862.9	864.2	865.4
10°	852.9	852.9	854.1	856.6	859.2
12.5°	840.3	841.5	844.1	849.1	852.9
15°	823.9	825.2	830.2	839.0	844.1
17.5°	805.1	808.8	816.4	826.5	834.0
20°	783.7	787.5	797.5	810.1	818.9
22.5°	761.0	764.8	777.4	792.5	802.6
25°	735.9	739.7	756.0	774.9	786.2
27.5°	708.2	713.2	733.4	753.5	767.3
30°	679.3	685.6	705.7	730.9	745.9
32.5°	650.3	657.9	679.3	708.2	723.3
35°	620.2	627.7	652.9	683.1	700.7
37.5°	587.4	596.3	622.7	659.1	676.8
40°	556.0	564.8	593.7	632.7	651.6
42.5°	523.3	533.4	563.5	603.8	625.2
45°	488.1	500.7	532.1	573.6	595.0
47.5°	454.1	465.4	499.4	542.2	564.8
50°	420.1	432.7	466.7	510.7	534.6
52.5°	386.2	397.5	432.7	476.8	501.9
55°	351.0	362.3	396.2	441.5	465.4
57.5°	315.7	329.6	361.0	405.0	431.5
60°	279.3	291.8	324.5	368.6	390.0
62.5°	245.3	256.6	284.3	325.8	335.9
65°	211.3	221.4	245.3	271.7	283.0
67.5°	179.9	187.4	208.8	226.4	231.5
70°	145.9	153.5	167.3	177.4	174.9
72.5°	115.7	120.8	129.6	128.3	122.0
75°	85.5	90.6	91.8	83.0	74.2
77.5°	60.4	62.9	59.1	46.5	37.7
80°	37.7	39.0	32.7	20.1	17.6
82.5°	21.4	21.4	15.1	12.6	10.1
85°	10.1	10.1	7.5	6.3	5.0
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	13.58	15.16	13.94	15.47	15.78	15.16	16.73	15.52	17.05	17.36
	3H	14.91	16.33	15.29	16.66	17.02	16.42	17.84	16.80	18.17	18.53
	4H	15.28	16.61	15.68	16.96	17.33	16.62	17.95	17.02	18.30	18.67
	6H	15.44	16.67	15.86	17.04	17.43	16.62	17.85	17.03	18.21	18.60
	8H	15.46	16.63	15.88	17.02	17.42	16.59	17.76	17.02	18.15	18.55
	12H	15.45	16.57	15.88	16.95	17.38	16.57	17.68	17.00	18.07	18.50
4H	2H	14.24	15.57	14.64	15.92	16.30	15.53	16.86	15.93	17.21	17.59
	3H	15.74	16.84	16.15	17.24	17.64	16.97	18.07	17.38	18.47	18.87
	4H	16.18	17.17	16.61	17.59	18.02	17.22	18.21	17.66	18.63	19.07
	6H	16.41	17.27	16.86	17.71	18.17	17.25	18.11	17.71	18.55	19.01
	8H	16.43	17.23	16.89	17.68	18.14	17.22	18.02	17.69	18.47	18.93
	12H	16.43	17.15	16.92	17.63	18.10	17.20	17.92	17.68	18.39	18.87
8H	4H	16.34	17.14	16.80	17.58	18.05	17.31	18.11	17.77	18.55	19.02
	6H	16.60	17.26	17.09	17.75	18.22	17.34	18.00	17.84	18.49	18.97
	8H	16.64	17.23	17.15	17.74	18.23	17.32	17.90	17.83	18.41	18.90
	12H	16.66	17.18	17.17	17.67	18.24	17.30	17.82	17.81	18.31	18.87
12H	4H	16.32	17.04	16.80	17.51	17.98	17.29	18.01	17.77	18.49	18.96
	6H	16.57	17.16	17.08	17.67	18.16	17.31	17.90	17.83	18.41	18.90
	8H	16.64	17.16	17.15	17.65	18.21	17.31	17.83	17.82	18.32	18.89