

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: P1498958

Luminaire Tested: MAE-G-4-120-1HI-LO-50-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498958
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-4-120-1HI-LO-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

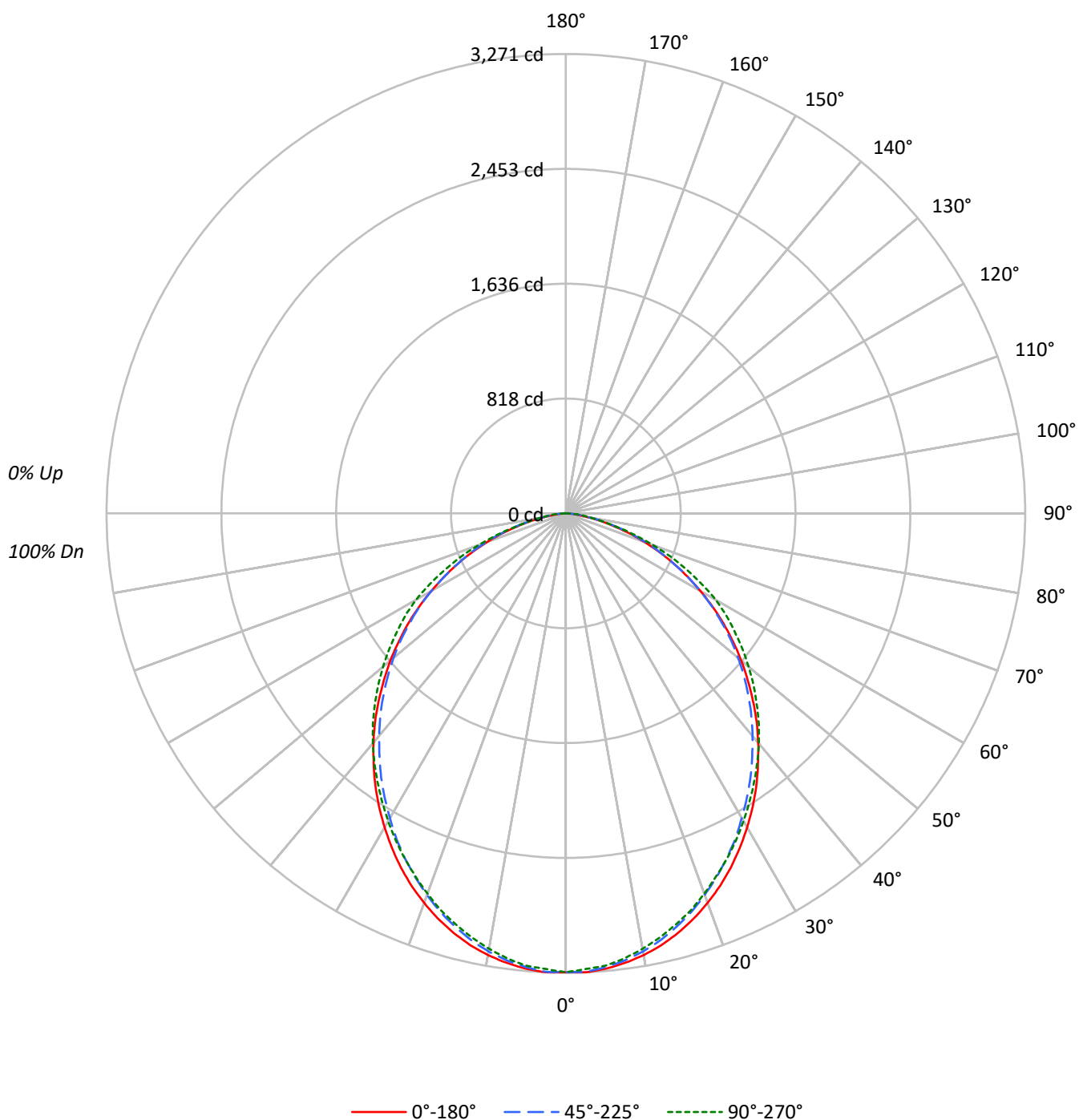
Lumens per Lamp: N/A
Luminaire Lumens: 7906.0 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 92.5
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	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	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		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64
5	78	65	56	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	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	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4396	4396	4396
5°	4397	4382	4367
10°	4363	4327	4301
15°	4306	4243	4219
20°	4226	4139	4126
25°	4128	4024	4028
30°	4010	3892	3931
35°	3886	3767	3840
40°	3743	3633	3755
45°	3584	3499	3658
50°	3415	3354	3557
55°	3220	3180	3439
60°	2978	2979	3320
65°	2701	2702	3026
70°	2336	2394	2605
75°	1853	1971	1995
80°	1270	1430	1446
85°	704	1028	1278

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3658 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.1	3.9
10°-20°	859.7	10.9
20°-30°	1255.2	15.9
30°-40°	1451.5	18.4
40°-50°	1443.1	18.3
50°-60°	1239.7	15.7
60°-70°	867.2	11.0
70°-80°	402.4	5.1
80°-90°	80.1	1.0
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°	2422.0	30.6
0°-40°	3873.5	49.0
0°-60°	6556.3	82.9
0°-90°	7906.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7906.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3267	3267	3267	3267	3267	
5°	3255	3252	3245	3227	3233	309
15°	3091	3079	3046	3022	3029	871
25°	2781	2752	2710	2698	2714	1280
35°	2366	2328	2293	2311	2338	1478
45°	1883	1853	1839	1890	1922	1453
55°	1372	1345	1356	1423	1466	1225
65°	848	828	849	920	951	840
75°	356	348	379	391	384	385
85°	46	54	67	78	83	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3267.3	3267.3	3267.3	3267.3	3267.3
2.5°	3271.2	3273.4	3267.3	3245.0	3247.3
5°	3255.3	3252.2	3244.6	3226.6	3233.2
7.5°	3228.8	3225.3	3211.6	3191.3	3196.0
10°	3193.7	3186.7	3167.3	3142.7	3147.9
12.5°	3148.6	3140.1	3113.4	3087.2	3093.6
15°	3091.4	3078.9	3046.3	3021.7	3029.1
17.5°	3025.9	3013.4	2975.2	2948.9	2962.2
20°	2951.6	2933.6	2890.8	2868.2	2881.6
22.5°	2870.4	2847.1	2803.9	2784.4	2797.5
25°	2780.9	2752.0	2710.4	2698.5	2713.5
27.5°	2683.9	2652.9	2612.7	2604.3	2624.4
30°	2581.1	2548.4	2504.8	2508.0	2530.0
32.5°	2476.1	2441.9	2400.2	2412.5	2434.5
35°	2365.8	2328.0	2293.4	2311.1	2337.6
37.5°	2247.6	2212.4	2179.6	2213.0	2238.8
40°	2131.2	2094.7	2068.4	2109.0	2138.1
42.5°	2010.2	1976.2	1955.3	2000.6	2034.1
45°	1883.3	1853.2	1838.9	1889.7	1922.4
47.5°	1756.9	1726.2	1721.4	1776.1	1812.8
50°	1631.3	1603.3	1602.4	1662.3	1699.1
52.5°	1500.8	1473.6	1481.7	1543.0	1585.7
55°	1372.5	1344.6	1355.7	1422.9	1465.9
57.5°	1240.8	1221.5	1232.9	1304.5	1355.5
60°	1106.5	1086.7	1107.0	1188.4	1233.6
62.5°	976.6	956.4	976.0	1063.1	1091.4
65°	848.3	827.5	848.8	919.7	950.6
67.5°	722.9	702.4	731.8	793.7	812.2
70°	593.7	576.1	608.6	656.9	662.1
72.5°	473.8	457.8	493.9	521.1	517.8
75°	356.5	348.2	379.2	390.7	383.7
77.5°	254.4	250.0	274.7	277.2	270.9
80°	163.9	167.8	184.5	184.4	186.6
82.5°	95.0	101.9	113.9	128.7	131.2
85°	45.6	53.8	66.6	78.5	82.8
87.5°	15.9	21.4	27.3	30.1	29.3
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	15.90	17.48	16.26	17.80	18.11	16.40	17.98	16.76	18.29	18.61
	3H	17.32	18.75	17.70	19.07	19.44	17.95	19.37	18.32	19.70	20.06
	4H	17.74	19.08	18.14	19.42	19.80	18.37	19.70	18.76	20.05	20.43
	6H	17.95	19.18	18.36	19.55	19.94	18.57	19.81	18.98	20.17	20.56
	8H	17.98	19.16	18.40	19.54	19.94	18.62	19.80	19.05	20.19	20.59
	12H	17.98	19.11	18.41	19.49	19.92	18.66	19.78	19.09	20.17	20.59
4H	2H	16.45	17.78	16.84	18.13	18.51	16.85	18.19	17.25	18.54	18.91
	3H	18.05	19.16	18.46	19.56	19.96	18.60	19.71	19.01	20.11	20.51
	4H	18.55	19.55	18.98	19.96	20.40	19.12	20.12	19.55	20.54	20.97
	6H	18.83	19.70	19.29	20.15	20.60	19.41	20.28	19.87	20.72	21.18
	8H	18.88	19.69	19.34	20.14	20.60	19.49	20.30	19.95	20.75	21.21
	12H	18.90	19.63	19.38	20.10	20.57	19.55	20.28	20.03	20.75	21.22
8H	4H	18.76	19.57	19.22	20.02	20.48	19.28	20.09	19.74	20.53	21.00
	6H	19.10	19.77	19.60	20.26	20.74	19.63	20.30	20.13	20.79	21.27
	8H	19.18	19.78	19.69	20.29	20.78	19.75	20.35	20.26	20.86	21.35
	12H	19.23	19.76	19.73	20.25	20.81	19.86	20.39	20.36	20.88	21.44
12H	4H	18.76	19.49	19.24	19.97	20.44	19.27	20.00	19.75	20.48	20.95
	6H	19.11	19.71	19.62	20.22	20.71	19.63	20.23	20.14	20.74	21.23
	8H	19.22	19.76	19.73	20.25	20.81	19.79	20.32	20.29	20.81	21.37