

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: P1499723

Luminaire Tested: MAE-G-4-120-3STD-LO-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-3STD-LO-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

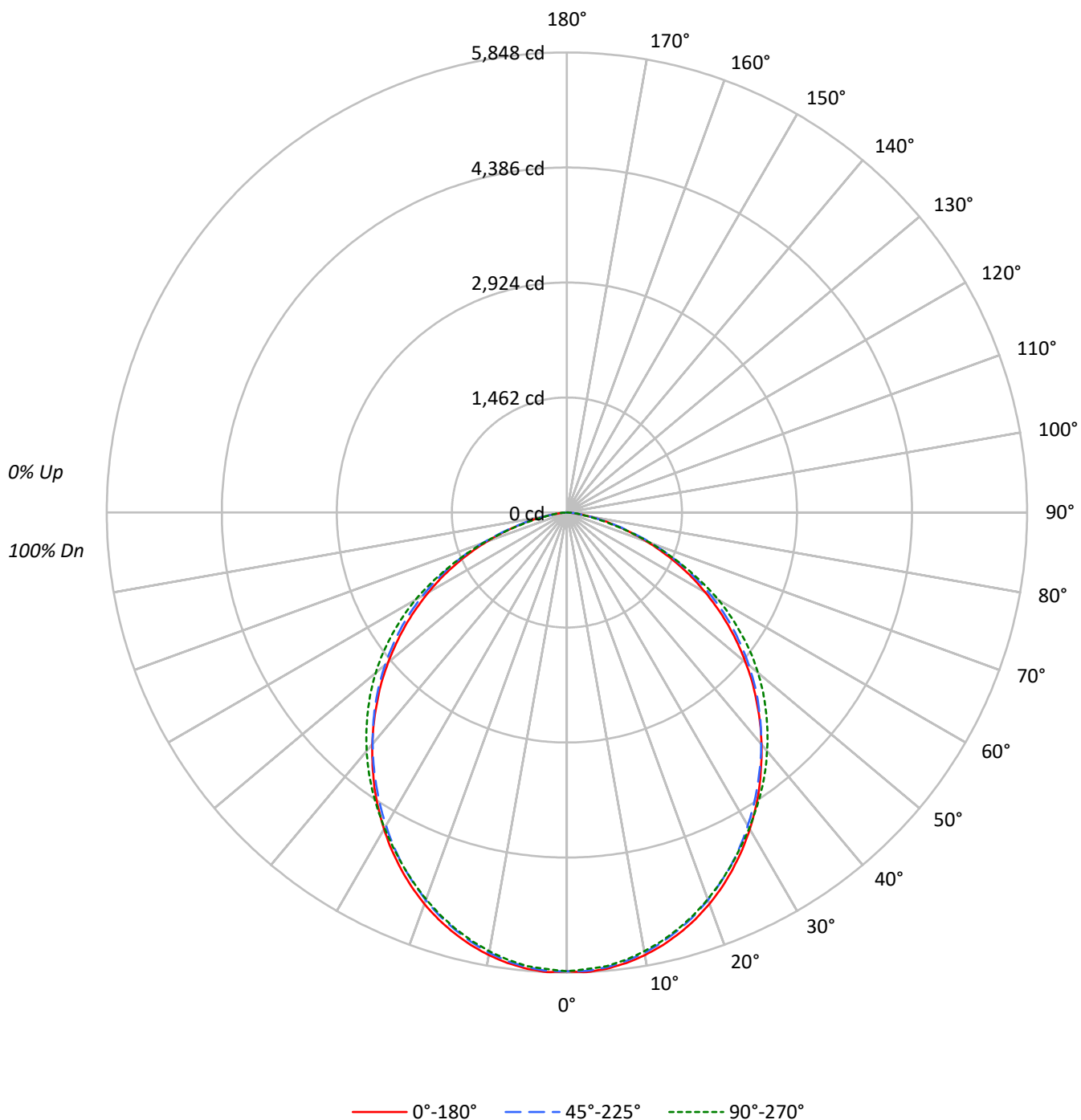
Lumens per Lamp: N/A
Luminaire Lumens: 14438.0 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 150.6
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	105	101	98	107	103	99	96	99	96	93		95	93	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	75	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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7848	7848	7848
5°	7862	7839	7817
10°	7807	7765	7738
15°	7711	7649	7628
20°	7583	7508	7491
25°	7415	7338	7339
30°	7223	7143	7198
35°	7006	6942	7080
40°	6760	6747	6953
45°	6494	6546	6810
50°	6203	6316	6638
55°	5876	6047	6369
60°	5469	5697	5991
65°	4962	5214	5310
70°	4266	4498	4405
75°	3382	3512	3179
80°	2263	2206	1931
85°	1149	1301	1525

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6810 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.5	3.8
10°-20°	1547.2	10.7
20°-30°	2278.0	15.8
30°-40°	2658.7	18.4
40°-50°	2670.9	18.5
50°-60°	2312.2	16.0
60°-70°	1603.1	11.1
70°-80°	704.1	4.9
80°-90°	114.3	0.8
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°	4374.7	30.3
0°-40°	7033.3	48.7
0°-60°	12016.4	83.2
0°-90°	14438.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14438.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5832	5832	5832	5832	5832	
5°	5821	5794	5804	5781	5788	552
15°	5536	5503	5491	5466	5476	1560
25°	4995	4959	4943	4919	4943	2300
35°	4265	4226	4226	4263	4310	2665
45°	3413	3391	3440	3527	3579	2633
55°	2505	2493	2578	2680	2715	2236
65°	1559	1569	1638	1664	1668	1540
75°	651	663	676	637	612	699
85°	74	77	84	95	99	111
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5832.5	5832.5	5832.5	5832.5	5832.5
2.5°	5847.8	5820.9	5832.5	5814.9	5808.6
5°	5821.2	5794.3	5803.8	5780.9	5787.9
7.5°	5775.9	5748.3	5752.7	5728.9	5735.9
10°	5714.1	5682.9	5683.1	5657.4	5663.5
12.5°	5632.2	5601.2	5596.5	5568.0	5578.6
15°	5536.0	5502.8	5491.1	5465.6	5475.8
17.5°	5424.5	5389.2	5375.8	5345.1	5360.9
20°	5296.3	5259.7	5243.4	5210.2	5231.8
22.5°	5152.9	5115.9	5096.0	5068.8	5091.5
25°	4995.0	4959.4	4942.6	4919.4	4943.3
27.5°	4828.9	4789.5	4774.6	4763.0	4789.1
30°	4649.3	4609.7	4597.4	4596.5	4632.7
32.5°	4459.5	4421.9	4414.9	4432.5	4473.9
35°	4265.1	4225.8	4226.5	4262.6	4310.5
37.5°	4055.8	4025.8	4036.5	4090.9	4139.7
40°	3848.7	3817.3	3841.4	3907.8	3958.8
42.5°	3634.6	3609.2	3643.3	3723.8	3771.8
45°	3412.7	3390.9	3440.2	3526.6	3579.0
47.5°	3195.5	3171.9	3232.5	3325.5	3381.2
50°	2963.3	2947.7	3017.3	3119.0	3171.3
52.5°	2734.3	2719.0	2798.9	2905.2	2954.5
55°	2504.9	2492.9	2577.6	2679.8	2715.1
57.5°	2268.0	2267.7	2352.7	2440.9	2476.8
60°	2032.3	2033.9	2117.2	2196.0	2226.4
62.5°	1796.6	1803.6	1880.3	1940.6	1948.3
65°	1558.6	1568.6	1637.6	1664.3	1667.9
67.5°	1318.4	1333.9	1392.9	1400.4	1396.5
70°	1084.5	1095.7	1143.3	1137.4	1119.8
72.5°	857.2	873.2	898.3	879.8	853.9
75°	650.6	663.4	675.5	636.7	611.5
77.5°	458.0	466.7	464.8	423.7	406.2
80°	292.0	301.5	284.7	261.0	249.2
82.5°	162.1	169.8	155.5	162.4	166.0
85°	74.4	77.4	84.3	94.8	98.8
87.5°	25.4	28.9	34.1	36.0	33.2
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	18.09	19.67	18.45	19.99	20.30	18.62	20.20	18.98	20.52	20.83
	3H	19.53	20.95	19.90	21.28	21.64	19.98	21.41	20.36	21.73	22.10
	4H	19.94	21.28	20.34	21.63	22.00	20.32	21.65	20.71	22.00	22.38
	6H	20.14	21.37	20.55	21.74	22.13	20.44	21.67	20.85	22.04	22.43
	8H	20.16	21.34	20.58	21.73	22.13	20.45	21.63	20.87	22.01	22.41
	12H	20.15	21.28	20.58	21.66	22.09	20.45	21.58	20.88	21.96	22.39
4H	2H	18.69	20.03	19.09	20.38	20.75	19.12	20.46	19.52	20.81	21.18
	3H	20.30	21.41	20.71	21.81	22.21	20.67	21.78	21.08	22.18	22.58
	4H	20.80	21.80	21.23	22.21	22.65	21.08	22.08	21.51	22.49	22.93
	6H	21.07	21.94	21.52	22.38	22.84	21.26	22.13	21.71	22.57	23.03
	8H	21.10	21.91	21.57	22.36	22.82	21.28	22.09	21.74	22.54	23.00
	12H	21.11	21.84	21.59	22.31	22.78	21.30	22.02	21.78	22.50	22.97
8H	4H	20.98	21.79	21.44	22.23	22.70	21.23	22.04	21.69	22.48	22.95
	6H	21.29	21.96	21.79	22.45	22.92	21.45	22.12	21.94	22.61	23.08
	8H	21.35	21.95	21.86	22.46	22.94	21.49	22.09	22.00	22.60	23.09
	12H	21.38	21.91	21.89	22.40	22.96	21.53	22.06	22.04	22.55	23.11
12H	4H	20.97	21.69	21.45	22.17	22.64	21.22	21.95	21.70	22.42	22.89
	6H	21.28	21.88	21.79	22.39	22.87	21.44	22.04	21.95	22.54	23.03
	8H	21.37	21.90	21.88	22.39	22.95	21.51	22.04	22.02	22.53	23.09