

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: P1499513

Luminaire Tested: MAE-G-4-120-3HI-LO-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499513
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-4-120-3HI-LO-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

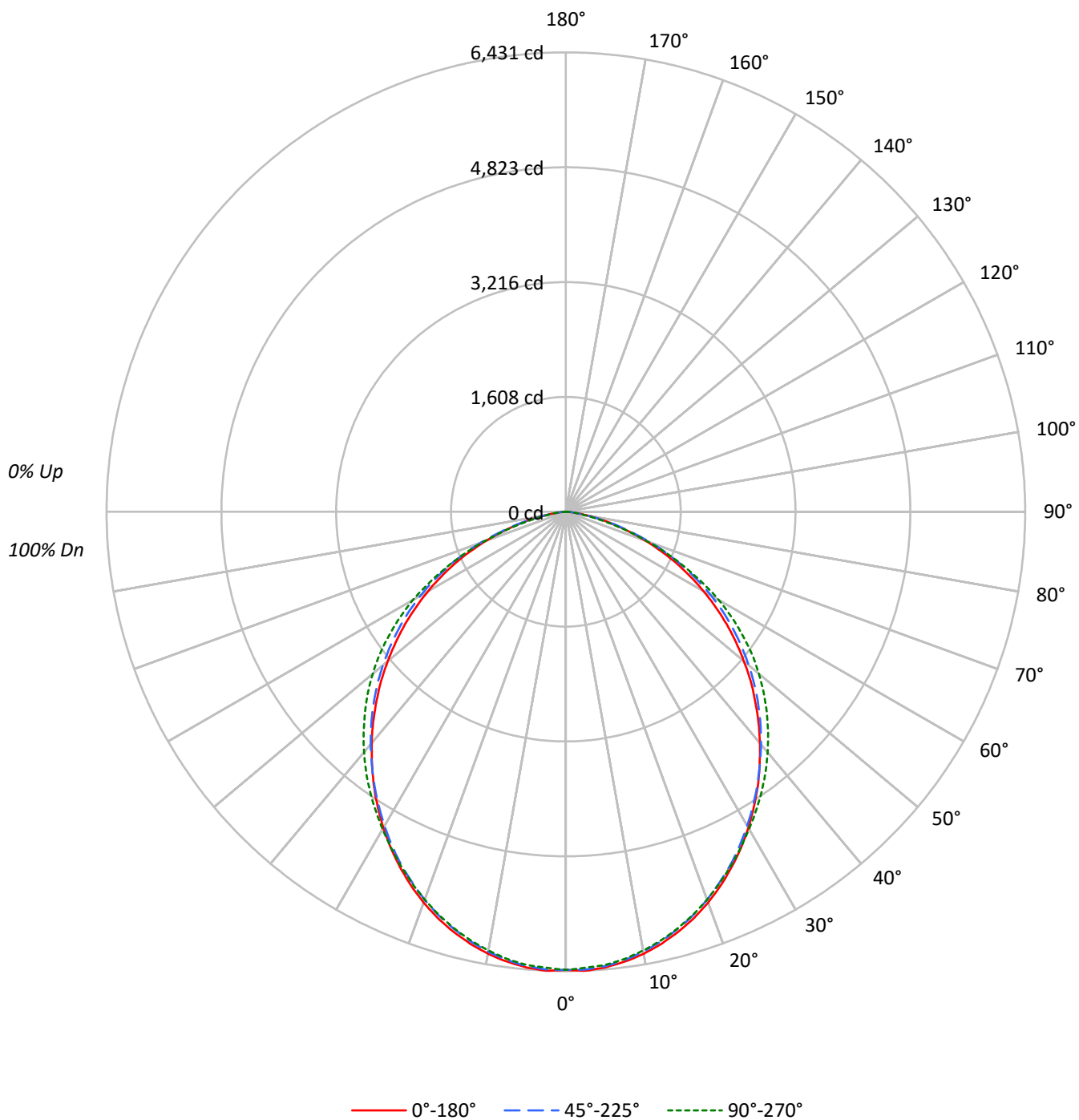
Lumens per Lamp: N/A
Luminaire Lumens: 15931.0 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 181.1
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93		95	93	90		91	89	88	86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	74	72
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72	67	64	62
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53	47	43	40
7	67	53	45	39	65	53	44	39	51	44	38		50	43	38		48	42	38	36
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44	38	34	32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8629	8629	8629
5°	8646	8621	8600
10°	8585	8544	8522
15°	8479	8424	8413
20°	8337	8277	8274
25°	8151	8097	8117
30°	7939	7889	7971
35°	7698	7673	7852
40°	7426	7464	7720
45°	7132	7247	7571
50°	6811	6997	7388
55°	6451	6703	7091
60°	6002	6318	6662
65°	5442	5779	5874
70°	4674	4965	4827
75°	3700	3839	3410
80°	2468	2351	1979
85°	1241	1334	1521

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7571 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.4	3.8
10°-20°	1704.0	10.7
20°-30°	2512.6	15.8
30°-40°	2936.6	18.4
40°-50°	2954.2	18.5
50°-60°	2559.9	16.1
60°-70°	1771.3	11.1
70°-80°	768.1	4.8
80°-90°	119.8	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°	4821.0	30.3
0°-40°	7757.7	48.7
0°-60°	13271.8	83.3
0°-90°	15931.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15931.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6414	6414	6414	6414	6414	
5°	6401	6370	6383	6360	6368	607
15°	6087	6052	6048	6027	6040	1715
25°	5490	5457	5454	5438	5467	2528
35°	4687	4653	4672	4723	4780	2928
45°	3748	3735	3809	3916	3979	2892
55°	2750	2747	2858	2981	3023	2455
65°	1709	1730	1815	1842	1845	1690
75°	712	730	738	688	656	765
85°	80	82	86	95	98	121
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6413.5	6413.5	6413.5	6413.5	6413.5
2.5°	6431.0	6399.3	6413.5	6396.2	6387.9
5°	6401.4	6370.4	6383.0	6360.5	6367.7
7.5°	6351.4	6320.3	6328.2	6305.7	6313.4
10°	6283.3	6248.7	6253.7	6230.3	6237.3
12.5°	6192.9	6159.4	6160.7	6135.7	6148.2
15°	6087.0	6052.0	6047.6	6027.2	6039.6
17.5°	5964.1	5927.6	5923.6	5898.2	5917.0
20°	5822.6	5786.0	5780.7	5752.7	5778.5
22.5°	5664.6	5628.6	5620.4	5599.7	5627.5
25°	5490.5	5457.4	5453.9	5438.1	5467.3
27.5°	5307.6	5271.1	5271.2	5268.3	5300.1
30°	5109.7	5073.7	5077.6	5086.9	5130.5
32.5°	4900.5	4867.7	4877.8	4908.2	4957.7
35°	4686.6	4652.7	4671.7	4722.9	4780.2
37.5°	4456.0	4432.7	4463.6	4535.2	4593.8
40°	4228.2	4203.5	4249.7	4334.7	4395.6
42.5°	3992.7	3975.0	4032.0	4132.9	4190.5
45°	3748.3	3735.2	3808.8	3915.9	3978.7
47.5°	3510.1	3494.4	3580.0	3694.4	3760.7
50°	3254.0	3247.5	3342.8	3466.6	3529.5
52.5°	3002.9	2995.9	3101.8	3230.6	3289.5
55°	2750.2	2747.4	2857.5	2980.8	3022.9
57.5°	2489.5	2499.5	2608.7	2714.5	2756.7
60°	2230.5	2242.0	2348.0	2440.8	2475.7
62.5°	1971.4	1988.8	2085.1	2154.2	2161.4
65°	1709.4	1729.7	1815.3	1842.4	1845.0
67.5°	1445.3	1470.9	1542.0	1545.0	1538.9
70°	1188.2	1208.1	1262.2	1249.6	1226.9
72.5°	938.3	962.4	987.6	959.8	928.0
75°	711.8	730.5	738.5	687.5	656.0
77.5°	500.6	512.5	503.4	449.9	427.3
80°	318.5	329.0	303.4	270.4	255.4
82.5°	176.1	183.6	161.8	165.4	167.9
85°	80.4	82.3	86.4	95.4	98.5
87.5°	27.6	30.4	34.7	36.2	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	18.42	20.00	18.78	20.32	20.63	19.02	20.60	19.38	20.91	21.23
	3H	19.85	21.28	20.23	21.60	21.96	20.36	21.78	20.73	22.11	22.47
	4H	20.26	21.60	20.66	21.95	22.32	20.67	22.01	21.07	22.35	22.73
	6H	20.46	21.69	20.87	22.06	22.45	20.77	22.01	21.18	22.37	22.76
	8H	20.48	21.65	20.90	22.04	22.44	20.78	21.95	21.20	22.34	22.74
	12H	20.47	21.60	20.90	21.98	22.41	20.77	21.90	21.20	22.28	22.71
4H	2H	19.03	20.37	19.43	20.72	21.09	19.51	20.85	19.91	21.20	21.58
	3H	20.64	21.74	21.05	22.14	22.54	21.03	22.14	21.44	22.54	22.94
	4H	21.13	22.13	21.56	22.54	22.98	21.42	22.42	21.85	22.83	23.27
	6H	21.39	22.26	21.85	22.70	23.16	21.58	22.45	22.04	22.89	23.35
	8H	21.43	22.24	21.89	22.68	23.15	21.59	22.40	22.06	22.85	23.31
	12H	21.43	22.16	21.92	22.64	23.11	21.60	22.33	22.09	22.80	23.28
8H	4H	21.30	22.11	21.76	22.55	23.02	21.57	22.38	22.03	22.82	23.29
	6H	21.61	22.28	22.10	22.77	23.24	21.76	22.43	22.25	22.92	23.39
	8H	21.67	22.26	22.18	22.77	23.26	21.79	22.39	22.30	22.90	23.38
	12H	21.69	22.22	22.20	22.71	23.27	21.82	22.35	22.33	22.84	23.40
12H	4H	21.29	22.01	21.77	22.49	22.96	21.56	22.28	22.04	22.76	23.23
	6H	21.59	22.19	22.11	22.70	23.19	21.75	22.34	22.26	22.85	23.34
	8H	21.68	22.21	22.19	22.70	23.26	21.81	22.33	22.32	22.83	23.39