

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: P1499519

Luminaire Tested: MAE-G-4-120-3HI-LO-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499519
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-35-90-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

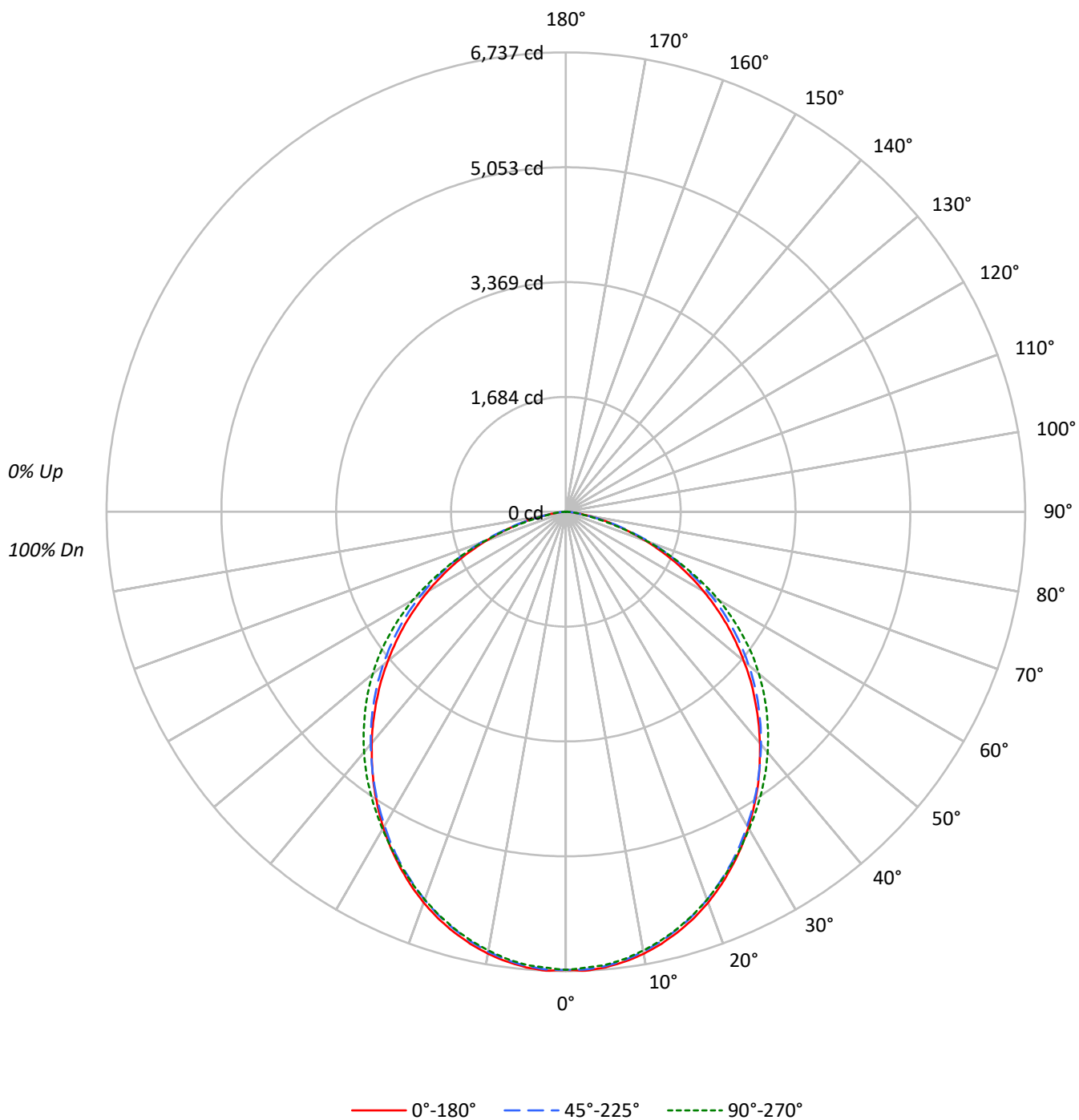
Lumens per Lamp: N/A
Luminaire Lumens: 16689.0 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	9040	9040	9040
5°	9057	9031	9010
10°	8993	8951	8927
15°	8882	8825	8813
20°	8734	8671	8668
25°	8539	8482	8503
30°	8316	8264	8350
35°	8064	8039	8225
40°	7780	7819	8088
45°	7472	7592	7931
50°	7135	7330	7740
55°	6758	7022	7428
60°	6288	6619	6979
65°	5701	6054	6153
70°	4897	5201	5056
75°	3877	4022	3573
80°	2585	2462	2073
85°	1301	1397	1593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7931 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	633.2	3.8
10°-20°	1785.1	10.7
20°-30°	2632.1	15.8
30°-40°	3076.4	18.4
40°-50°	3094.8	18.5
50°-60°	2681.7	16.1
60°-70°	1855.5	11.1
70°-80°	804.6	4.8
80°-90°	125.5	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°	5050.4	30.3
0°-40°	8126.8	48.7
0°-60°	13903.3	83.3
0°-90°	16689.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16689.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6719	6719	6719	6719	6719	
5°	6706	6674	6687	6663	6671	636
15°	6377	6340	6335	6314	6327	1797
25°	5752	5717	5713	5697	5727	2648
35°	4910	4874	4894	4948	5008	3067
45°	3927	3913	3990	4102	4168	3030
55°	2881	2878	2993	3123	3167	2572
65°	1791	1812	1902	1930	1933	1770
75°	746	765	774	720	687	801
85°	84	86	90	100	103	126
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6718.6	6718.6	6718.6	6718.6	6718.6
2.5°	6736.8	6703.8	6718.6	6700.5	6691.8
5°	6705.9	6673.5	6686.7	6663.1	6670.6
7.5°	6653.6	6621.0	6629.3	6605.8	6613.8
10°	6582.2	6546.0	6551.3	6526.7	6534.0
12.5°	6487.5	6452.4	6453.9	6427.6	6440.8
15°	6376.6	6339.9	6335.3	6313.9	6327.0
17.5°	6247.8	6209.7	6205.4	6178.8	6198.5
20°	6099.7	6061.2	6055.8	6026.4	6053.5
22.5°	5934.1	5896.4	5887.8	5866.2	5895.3
25°	5751.8	5717.1	5713.4	5696.8	5727.4
27.5°	5560.1	5521.8	5522.0	5519.0	5552.3
30°	5352.7	5315.1	5319.3	5328.9	5374.7
32.5°	5133.6	5099.3	5110.0	5141.7	5193.7
35°	4909.5	4874.0	4894.0	4947.6	5007.5
37.5°	4668.0	4643.7	4676.0	4750.9	4812.4
40°	4429.3	4403.5	4451.9	4540.9	4604.8
42.5°	4182.7	4164.1	4223.8	4329.6	4389.8
45°	3926.7	3912.9	3990.1	4102.3	4168.0
47.5°	3677.1	3660.6	3750.3	3870.1	3939.6
50°	3408.8	3402.0	3501.9	3631.6	3697.5
52.5°	3145.7	3138.5	3249.5	3384.3	3446.0
55°	2881.0	2878.1	2993.4	3122.7	3166.7
57.5°	2608.0	2618.4	2732.9	2843.7	2887.8
60°	2336.6	2348.7	2459.7	2557.0	2593.5
62.5°	2065.2	2083.4	2184.3	2256.8	2264.3
65°	1790.7	1812.0	1901.6	1930.1	1932.8
67.5°	1514.1	1540.8	1615.3	1618.6	1612.1
70°	1244.7	1265.6	1322.2	1309.0	1285.3
72.5°	982.9	1008.3	1034.6	1005.5	972.2
75°	745.7	765.3	773.6	720.2	687.3
77.5°	524.4	536.9	527.4	471.3	447.6
80°	333.6	344.7	317.8	283.3	267.6
82.5°	184.5	192.2	169.5	173.3	175.9
85°	84.3	86.2	90.5	100.0	103.2
87.5°	28.8	31.8	36.3	38.0	34.8
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	18.58	20.16	18.94	20.48	20.79	19.18	20.76	19.54	21.08	21.39
	3H	20.01	21.44	20.39	21.76	22.13	20.52	21.94	20.89	22.27	22.63
	4H	20.42	21.76	20.82	22.11	22.49	20.83	22.17	21.23	22.52	22.89
	6H	20.62	21.85	21.03	22.22	22.61	20.93	22.17	21.34	22.53	22.92
	8H	20.64	21.82	21.06	22.20	22.60	20.94	22.12	21.36	22.50	22.90
	12H	20.63	21.76	21.06	22.14	22.57	20.93	22.06	21.36	22.44	22.87
4H	2H	19.19	20.53	19.59	20.88	21.25	19.68	21.01	20.08	21.36	21.74
	3H	20.80	21.91	21.21	22.30	22.71	21.19	22.30	21.60	22.70	23.10
	4H	21.29	22.29	21.72	22.70	23.14	21.58	22.58	22.01	23.00	23.43
	6H	21.55	22.42	22.01	22.86	23.32	21.74	22.61	22.20	23.05	23.51
	8H	21.59	22.40	22.05	22.84	23.31	21.76	22.57	22.22	23.01	23.48
	12H	21.60	22.32	22.08	22.80	23.27	21.77	22.49	22.25	22.97	23.44
8H	4H	21.46	22.27	21.92	22.71	23.18	21.73	22.54	22.19	22.98	23.45
	6H	21.77	22.44	22.27	22.93	23.40	21.92	22.59	22.42	23.08	23.55
	8H	21.83	22.42	22.34	22.93	23.42	21.95	22.55	22.47	23.06	23.55
	12H	21.85	22.38	22.36	22.87	23.44	21.98	22.51	22.49	23.00	23.57
12H	4H	21.45	22.18	21.93	22.65	23.12	21.72	22.45	22.20	22.92	23.39
	6H	21.76	22.35	22.27	22.86	23.35	21.91	22.51	22.42	23.01	23.50
	8H	21.84	22.37	22.35	22.86	23.42	21.97	22.50	22.48	22.99	23.55