

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: P1499243

Luminaire Tested: MAE-G-4-120-2HI-LO-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2HI-LO-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

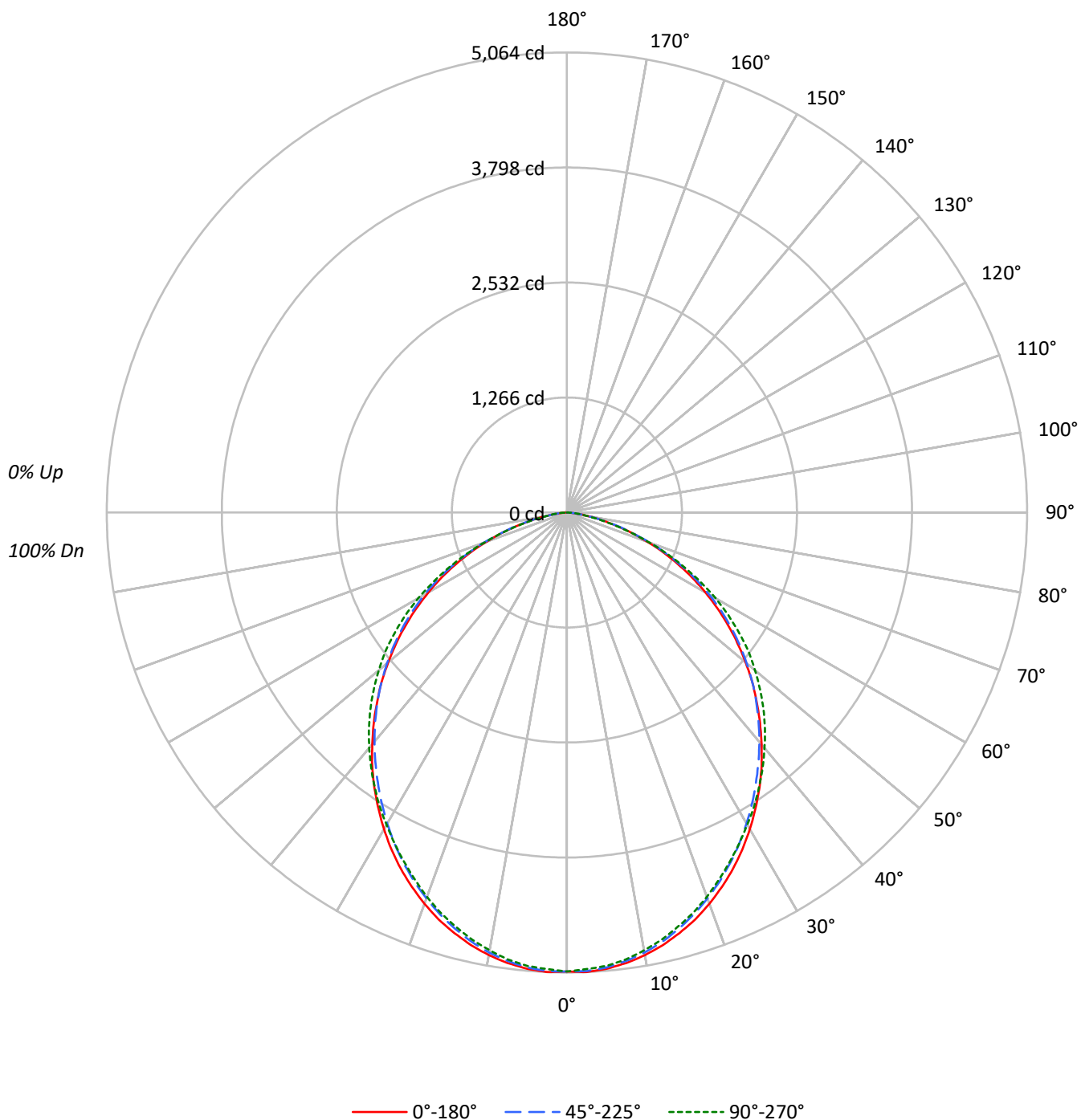
Lumens per Lamp: N/A
Luminaire Lumens: 12424.0 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.8
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	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	38		50	43	38		48
8	62	49	41	35	61	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	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6798	6798	6798
5°	6808	6789	6765
10°	6759	6720	6686
15°	6674	6610	6576
20°	6563	6473	6446
25°	6422	6316	6297
30°	6255	6143	6167
35°	6068	5958	6057
40°	5853	5786	5943
45°	5623	5607	5821
50°	5373	5410	5656
55°	5085	5170	5429
60°	4739	4866	5094
65°	4300	4443	4540
70°	3701	3826	3794
75°	2938	3007	2827
80°	1968	1946	1788
85°	986	1183	1439

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5821 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.7	3.8
10°-20°	1336.9	10.8
20°-30°	1963.6	15.8
30°-40°	2287.4	18.4
40°-50°	2293.2	18.5
50°-60°	1981.3	15.9
60°-70°	1373.2	11.1
70°-80°	609.8	4.9
80°-90°	102.8	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°	3776.2	30.4
0°-40°	6063.7	48.8
0°-60°	10338.2	83.2
0°-90°	12424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12424.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5052	5052	5052	5052	5052	
5°	5041	5020	5027	5004	5009	478
15°	4791	4762	4746	4715	4721	1351
25°	4326	4291	4254	4229	4242	1991
35°	3694	3653	3628	3654	3688	2309
45°	2955	2925	2947	3016	3059	2280
55°	2168	2149	2204	2283	2314	1936
65°	1350	1353	1396	1414	1426	1337
75°	565	570	578	553	544	608
85°	64	68	77	89	93	96
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5052.3	5052.3	5052.3	5052.3	5052.3
2.5°	5063.5	5042.6	5052.3	5035.4	5030.5
5°	5040.9	5019.6	5026.7	5003.9	5009.1
7.5°	5001.9	4979.1	4981.2	4957.0	4962.8
10°	4947.4	4921.0	4918.4	4889.8	4893.5
12.5°	4878.1	4850.2	4841.4	4809.7	4816.9
15°	4791.4	4761.8	4745.5	4715.1	4720.6
17.5°	4696.6	4666.7	4639.6	4608.5	4619.7
20°	4583.5	4552.9	4521.1	4488.3	4501.9
22.5°	4458.8	4425.3	4394.1	4363.1	4373.7
25°	4326.1	4290.8	4254.5	4229.4	4241.9
27.5°	4181.4	4142.4	4108.5	4089.1	4106.4
30°	4026.2	3986.7	3953.9	3946.9	3969.6
32.5°	3862.6	3823.9	3794.2	3804.4	3835.5
35°	3694.0	3653.0	3627.5	3653.6	3687.8
37.5°	3519.0	3479.2	3462.5	3503.9	3539.7
40°	3332.3	3298.2	3294.1	3345.8	3383.5
42.5°	3145.7	3114.2	3122.7	3185.0	3225.7
45°	2955.2	2924.8	2946.7	3015.7	3059.1
47.5°	2767.1	2735.0	2768.7	2843.9	2882.7
50°	2566.8	2541.9	2584.4	2662.3	2702.1
52.5°	2367.3	2344.8	2396.1	2477.5	2522.2
55°	2167.9	2149.4	2204.0	2282.8	2314.3
57.5°	1963.9	1953.8	2010.0	2077.5	2107.0
60°	1761.1	1753.0	1808.3	1867.2	1893.0
62.5°	1556.1	1551.5	1604.3	1647.6	1660.1
65°	1350.5	1352.8	1395.5	1413.5	1426.0
67.5°	1150.0	1150.3	1186.8	1198.0	1199.0
70°	940.9	947.8	972.6	971.2	964.4
72.5°	750.4	753.1	767.6	754.7	743.9
75°	565.1	569.6	578.4	553.4	543.8
77.5°	396.7	406.5	399.9	377.3	368.6
80°	254.0	264.0	251.2	237.9	230.8
82.5°	141.1	146.7	140.1	150.2	154.3
85°	63.9	68.3	76.6	88.7	93.2
87.5°	21.6	25.8	31.8	33.5	31.4
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	17.58	19.17	17.95	19.48	19.79	18.02	19.60	18.39	19.92	20.23
	3H	19.03	20.46	19.41	20.78	21.15	19.40	20.83	19.78	21.15	21.51
	4H	19.45	20.79	19.85	21.14	21.51	19.76	21.09	20.15	21.44	21.82
	6H	19.65	20.88	20.06	21.25	21.64	19.90	21.13	20.31	21.50	21.89
	8H	19.67	20.85	20.10	21.24	21.64	19.92	21.09	20.34	21.48	21.88
	12H	19.67	20.79	20.10	21.18	21.61	19.92	21.05	20.35	21.43	21.86
4H	2H	18.17	19.51	18.57	19.85	20.23	18.52	19.86	18.92	20.21	20.59
	3H	19.79	20.90	20.20	21.30	21.70	20.09	21.19	20.50	21.59	21.99
	4H	20.29	21.29	20.73	21.71	22.14	20.52	21.52	20.95	21.93	22.37
	6H	20.57	21.43	21.02	21.88	22.33	20.73	21.59	21.18	22.03	22.49
	8H	20.60	21.41	21.07	21.86	22.32	20.76	21.57	21.22	22.01	22.48
	12H	20.61	21.34	21.09	21.81	22.28	20.78	21.51	21.27	21.99	22.46
8H	4H	20.47	21.28	20.93	21.72	22.19	20.67	21.48	21.13	21.93	22.39
	6H	20.79	21.46	21.28	21.95	22.42	20.92	21.59	21.42	22.08	22.56
	8H	20.85	21.45	21.36	21.96	22.44	20.98	21.58	21.49	22.09	22.57
	12H	20.88	21.41	21.39	21.90	22.46	21.03	21.56	21.54	22.05	22.62
12H	4H	20.46	21.19	20.94	21.66	22.13	20.67	21.39	21.15	21.87	22.34
	6H	20.78	21.38	21.29	21.89	22.37	20.91	21.51	21.43	22.02	22.51
	8H	20.87	21.40	21.38	21.89	22.45	21.00	21.53	21.51	22.02	22.59