

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: P1499318

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499318
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-4-120-2LO-HI-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

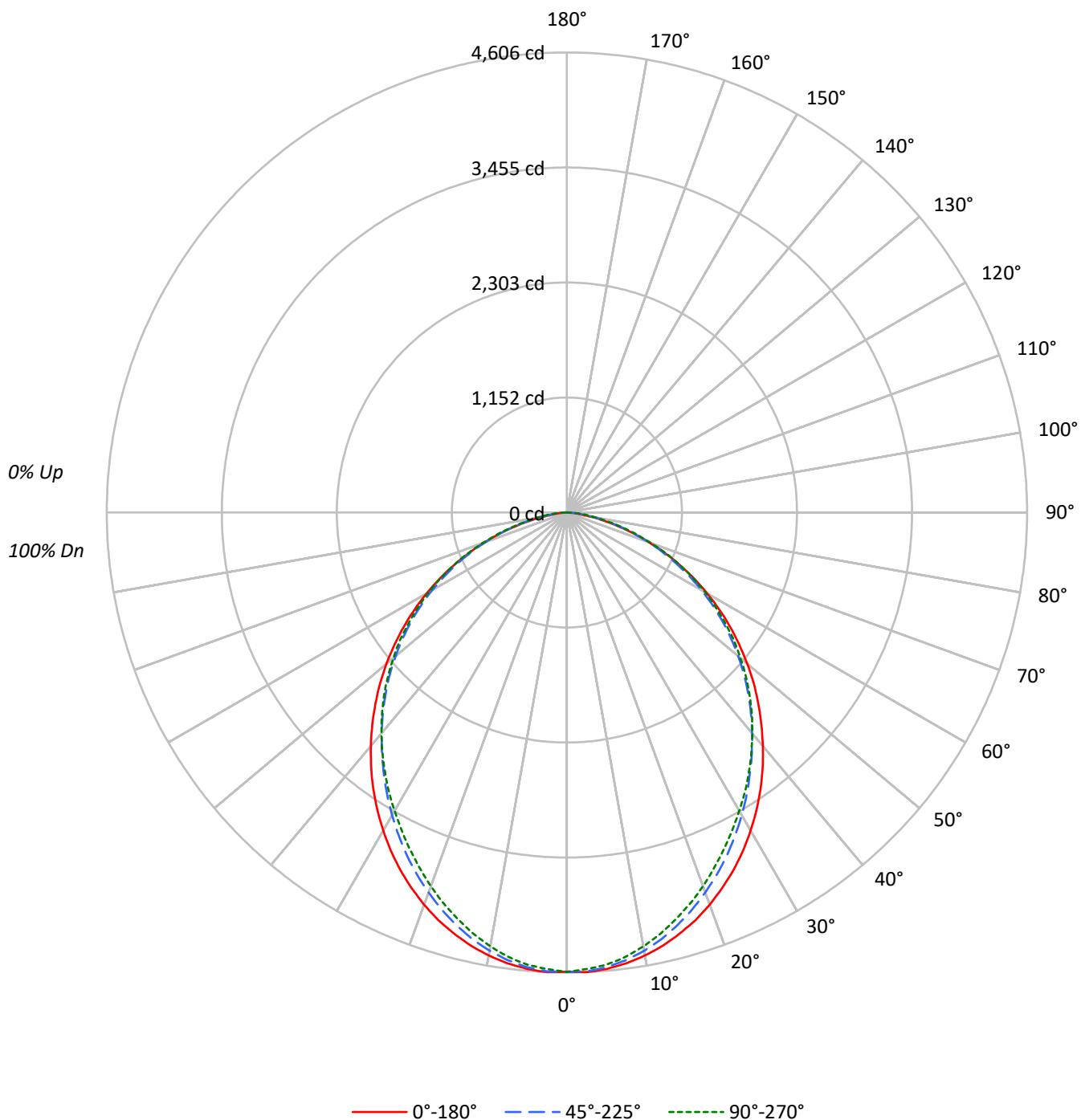
Lumens per Lamp: N/A
Luminaire Lumens: 11066.0 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.9
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	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	84	79	87	82	78		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	60	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	45	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	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°	6187	6187	6187
5°	6195	6172	6138
10°	6153	6088	6025
15°	6079	5957	5870
20°	5983	5797	5701
25°	5860	5623	5521
30°	5714	5436	5359
35°	5549	5246	5215
40°	5361	5065	5071
45°	5157	4882	4923
50°	4935	4688	4745
55°	4677	4462	4543
60°	4368	4189	4306
65°	3982	3841	3980
70°	3450	3408	3543
75°	2761	2855	2965
80°	1891	2125	2295
85°	997	1536	2033

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5157 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.9	3.9
10°-20°	1204.7	10.9
20°-30°	1752.7	15.8
30°-40°	2022.7	18.3
40°-50°	2009.5	18.2
50°-60°	1725.0	15.6
60°-70°	1213.3	11.0
70°-80°	585.0	5.3
80°-90°	121.2	1.1
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°	3389.3	30.6
0°-40°	5412.1	48.9
0°-60°	9146.5	82.7
0°-90°	11066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11066.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4598	4598	4598	4598	4598	
5°	4587	4573	4570	4537	4545	435
15°	4364	4331	4276	4214	4214	1230
25°	3947	3888	3788	3720	3719	1817
35°	3378	3299	3194	3164	3175	2112
45°	2710	2634	2566	2572	2587	2090
55°	1994	1930	1902	1924	1937	1780
65°	1251	1209	1206	1235	1250	1237
75°	531	515	549	565	570	571
85°	65	76	100	122	132	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4598.1	4598.1	4598.1	4598.1	4598.1
2.5°	4606.5	4595.9	4598.1	4572.8	4575.0
5°	4587.0	4573.4	4569.8	4537.3	4544.7
7.5°	4551.9	4534.3	4521.5	4483.0	4488.8
10°	4503.7	4480.4	4456.0	4407.8	4410.1
12.5°	4441.4	4413.1	4374.8	4317.7	4320.7
15°	4364.4	4330.7	4276.4	4213.7	4214.0
17.5°	4278.9	4239.9	4167.8	4100.2	4104.9
20°	4178.6	4133.6	4048.5	3978.5	3981.9
22.5°	4066.9	4014.5	3924.0	3853.0	3851.6
25°	3947.0	3887.6	3787.7	3720.2	3719.2
27.5°	3817.4	3750.9	3645.9	3582.7	3584.7
30°	3677.8	3606.7	3498.9	3444.6	3449.1
32.5°	3531.1	3456.3	3349.6	3307.2	3316.8
35°	3378.5	3298.6	3193.8	3164.0	3174.8
37.5°	3219.1	3140.0	3039.8	3022.2	3033.2
40°	3052.0	2974.7	2883.7	2874.4	2887.4
42.5°	2882.7	2807.0	2726.4	2725.9	2740.0
45°	2710.2	2633.9	2565.9	2572.1	2587.0
47.5°	2537.2	2461.9	2405.5	2417.0	2430.5
50°	2357.4	2286.6	2239.5	2255.5	2267.0
52.5°	2173.2	2107.2	2072.2	2091.8	2109.7
55°	1993.8	1929.7	1902.3	1923.8	1936.7
57.5°	1808.3	1753.0	1732.0	1753.9	1768.3
60°	1623.3	1571.3	1556.5	1583.1	1600.2
62.5°	1436.4	1388.7	1382.3	1410.7	1426.2
65°	1250.6	1209.1	1206.5	1234.8	1250.2
67.5°	1065.8	1028.8	1035.9	1069.3	1078.4
70°	876.9	846.8	866.2	894.0	900.5
72.5°	700.9	675.5	703.0	725.9	729.2
75°	531.1	514.6	549.2	564.7	570.4
77.5°	376.5	372.5	401.9	417.5	424.3
80°	244.0	251.5	274.3	292.7	296.2
82.5°	138.8	149.3	171.0	197.8	208.3
85°	64.6	75.8	99.5	121.9	131.7
87.5°	21.7	30.0	42.3	46.1	44.0
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	17.26	18.85	17.63	19.16	19.47	17.24	18.82	17.61	19.14	19.45
	3H	18.74	20.17	19.12	20.49	20.85	18.81	20.23	19.19	20.56	20.92
	4H	19.18	20.51	19.57	20.86	21.24	19.30	20.64	19.70	20.99	21.37
	6H	19.39	20.63	19.81	21.00	21.39	19.59	20.83	20.00	21.19	21.59
	8H	19.43	20.61	19.85	21.00	21.40	19.67	20.85	20.10	21.24	21.64
	12H	19.43	20.56	19.86	20.94	21.37	19.72	20.85	20.15	21.24	21.67
4H	2H	17.79	19.13	18.19	19.48	19.85	17.77	19.11	18.17	19.46	19.84
	3H	19.45	20.57	19.86	20.96	21.37	19.53	20.65	19.94	21.05	21.45
	4H	19.97	20.98	20.40	21.39	21.83	20.13	21.14	20.56	21.55	21.99
	6H	20.27	21.15	20.73	21.59	22.05	20.52	21.39	20.97	21.83	22.29
	8H	20.32	21.14	20.79	21.58	22.05	20.63	21.44	21.09	21.89	22.35
	12H	20.34	21.07	20.82	21.55	22.02	20.71	21.45	21.20	21.92	22.39
8H	4H	20.18	20.99	20.64	21.44	21.90	20.32	21.14	20.78	21.58	22.05
	6H	20.54	21.22	21.04	21.71	22.18	20.78	21.46	21.28	21.95	22.42
	8H	20.62	21.23	21.13	21.73	22.22	20.94	21.55	21.45	22.05	22.54
	12H	20.67	21.20	21.17	21.69	22.25	21.08	21.62	21.59	22.11	22.67
12H	4H	20.19	20.92	20.67	21.39	21.86	20.32	21.05	20.80	21.53	22.00
	6H	20.55	21.16	21.07	21.67	22.15	20.79	21.39	21.30	21.90	22.39
	8H	20.67	21.21	21.18	21.70	22.26	20.99	21.52	21.50	22.01	22.58