

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: P1499333

Luminaire Tested: MAE-G-4-120-2LO-LO-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499333
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-LO-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

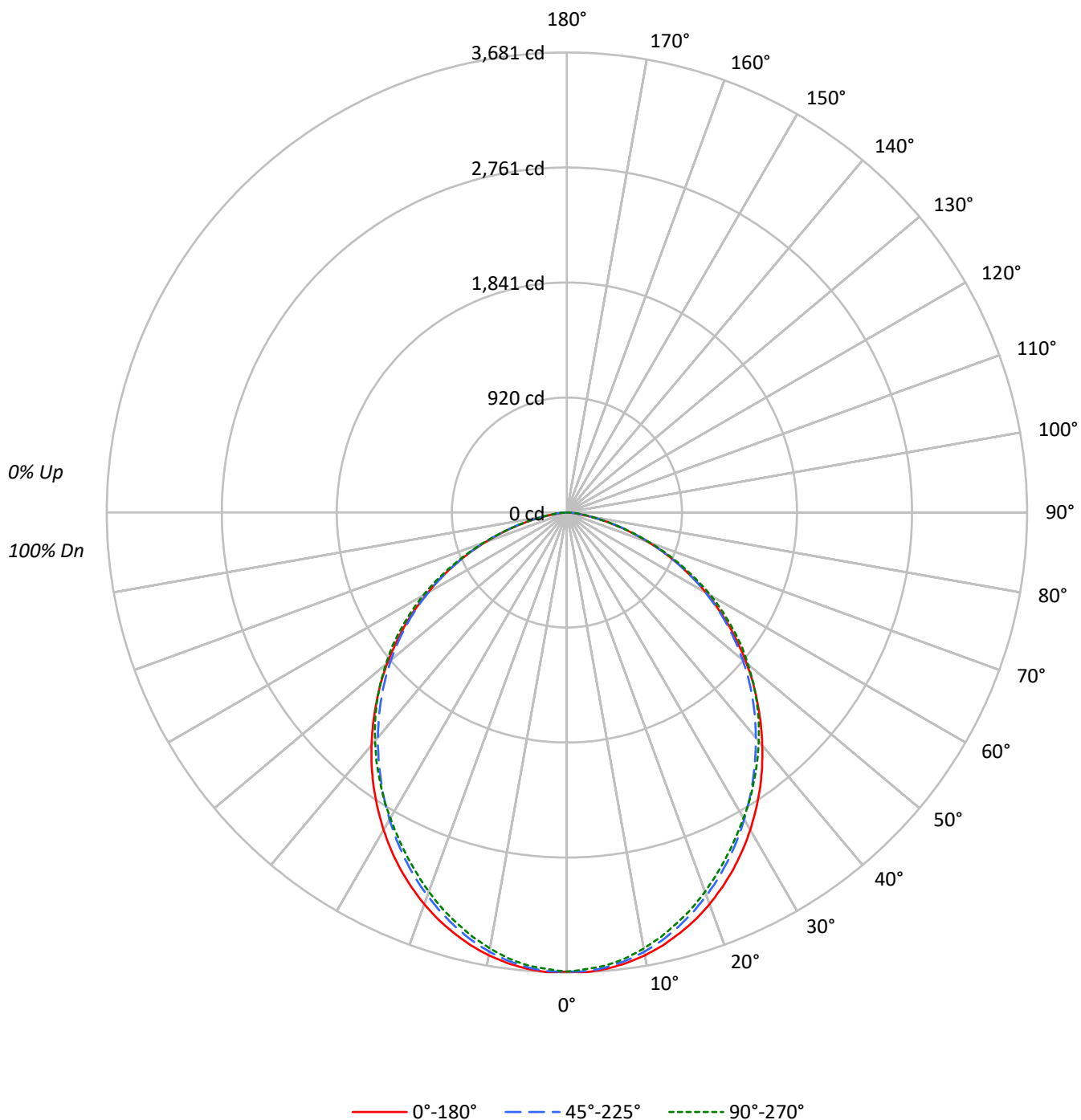
Lumens per Lamp: N/A
Luminaire Lumens: 8942.0 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 96.2
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	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	92	90	91	89	88	85		
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61		
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	41		
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4943	4943	4943
5°	4950	4934	4912
10°	4915	4876	4839
15°	4855	4784	4738
20°	4776	4671	4624
25°	4675	4545	4499
30°	4556	4408	4388
35°	4422	4265	4291
40°	4269	4131	4193
45°	4104	3993	4090
50°	3924	3844	3959
55°	3716	3667	3796
60°	3467	3447	3578
65°	3152	3154	3244
70°	2722	2754	2793
75°	2169	2231	2205
80°	1469	1550	1554
85°	755	1034	1321

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4104 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.5	3.9
10°-20°	967.5	10.8
20°-30°	1414.7	15.8
30°-40°	1640.8	18.3
40°-50°	1637.9	18.3
50°-60°	1410.9	15.8
60°-70°	984.6	11.0
70°-80°	454.8	5.1
80°-90°	85.3	1.0
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°	2727.7	30.5
0°-40°	4368.5	48.9
0°-60°	7417.3	82.9
0°-90°	8942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8942.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3674	3674	3674	3674	3674	
5°	3665	3652	3653	3632	3637	348
15°	3485	3461	3434	3399	3401	982
25°	3149	3113	3061	3026	3031	1450
35°	2692	2646	2597	2595	2612	1683
45°	2157	2116	2098	2127	2149	1664
55°	1584	1553	1563	1601	1618	1415
65°	990	975	991	1008	1019	980
75°	417	413	429	426	424	449
85°	49	55	67	80	86	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3673.7	3673.7	3673.7	3673.7	3673.7
2.5°	3681.1	3669.1	3673.7	3657.6	3656.6
5°	3665.0	3651.8	3653.1	3632.1	3636.8
7.5°	3636.9	3621.5	3617.4	3593.6	3598.0
10°	3597.8	3578.9	3568.6	3539.3	3541.6
12.5°	3547.7	3526.2	3508.3	3474.6	3478.4
15°	3485.3	3461.3	3434.5	3399.0	3401.1
17.5°	3416.7	3390.5	3352.8	3315.2	3321.2
20°	3335.4	3306.7	3262.2	3223.1	3229.5
22.5°	3245.5	3212.8	3166.4	3127.6	3131.2
25°	3149.3	3113.3	3061.4	3026.3	3030.6
27.5°	3044.9	3004.8	2951.9	2920.4	2927.8
30°	2932.7	2890.6	2837.1	2813.7	2824.1
32.5°	2814.6	2771.4	2719.4	2707.2	2722.7
35°	2692.3	2646.3	2596.7	2595.3	2612.4
37.5°	2565.0	2519.8	2475.2	2484.3	2502.1
40°	2430.4	2387.9	2351.7	2367.9	2387.2
42.5°	2294.9	2254.1	2226.6	2250.2	2271.0
45°	2156.7	2116.1	2098.5	2127.1	2149.3
47.5°	2019.2	1978.3	1969.6	2002.6	2022.6
50°	1874.5	1838.1	1836.3	1872.1	1891.5
52.5°	1728.5	1694.7	1700.9	1739.5	1763.3
55°	1584.2	1552.9	1563.2	1601.4	1618.2
57.5°	1436.0	1411.1	1424.5	1458.5	1475.2
60°	1288.3	1265.5	1280.9	1313.4	1329.8
62.5°	1139.1	1119.3	1136.9	1164.3	1174.9
65°	990.1	975.3	990.6	1008.1	1018.8
67.5°	843.5	829.5	846.2	863.1	866.9
70°	691.9	683.2	700.0	710.1	709.9
72.5°	552.5	543.9	559.9	563.6	560.8
75°	417.3	412.6	429.2	425.6	424.2
77.5°	294.4	296.5	305.2	302.6	301.9
80°	189.6	196.2	200.0	202.0	200.6
82.5°	106.5	112.7	118.4	132.5	138.0
85°	48.9	54.9	67.0	80.2	85.6
87.5°	16.5	21.2	28.2	30.3	28.7
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	16.48	18.06	16.84	18.38	18.69	16.70	18.29	17.07	18.60	18.91
	3H	17.94	19.37	18.32	19.69	20.06	18.17	19.59	18.55	19.92	20.28
	4H	18.37	19.71	18.77	20.05	20.43	18.58	19.92	18.98	20.27	20.65
	6H	18.58	19.81	18.99	20.18	20.57	18.79	20.03	19.20	20.39	20.79
	8H	18.60	19.78	19.03	20.17	20.57	18.84	20.02	19.26	20.41	20.81
	12H	18.60	19.73	19.03	20.11	20.54	18.86	19.99	19.29	20.38	20.80
4H	2H	17.04	18.38	17.44	18.72	19.10	17.22	18.56	17.62	18.90	19.28
	3H	18.68	19.79	19.09	20.19	20.59	18.87	19.98	19.28	20.38	20.78
	4H	19.19	20.19	19.62	20.60	21.04	19.38	20.38	19.81	20.79	21.23
	6H	19.47	20.35	19.93	20.79	21.24	19.67	20.54	20.12	20.98	21.44
	8H	19.52	20.33	19.98	20.77	21.24	19.73	20.55	20.20	20.99	21.46
	12H	19.53	20.26	20.01	20.74	21.21	19.79	20.51	20.27	20.99	21.46
8H	4H	19.38	20.19	19.84	20.63	21.10	19.55	20.36	20.01	20.81	21.27
	6H	19.72	20.39	20.21	20.88	21.36	19.90	20.57	20.39	21.06	21.53
	8H	19.79	20.39	20.30	20.90	21.39	20.00	20.60	20.51	21.11	21.59
	12H	19.82	20.36	20.33	20.85	21.41	20.09	20.62	20.60	21.11	21.67
12H	4H	19.38	20.10	19.86	20.58	21.05	19.55	20.27	20.03	20.75	21.22
	6H	19.72	20.32	20.23	20.83	21.32	19.89	20.49	20.40	21.00	21.49
	8H	19.82	20.35	20.33	20.85	21.41	20.03	20.56	20.54	21.05	21.62