

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: P1499339

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499339
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-50-90-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

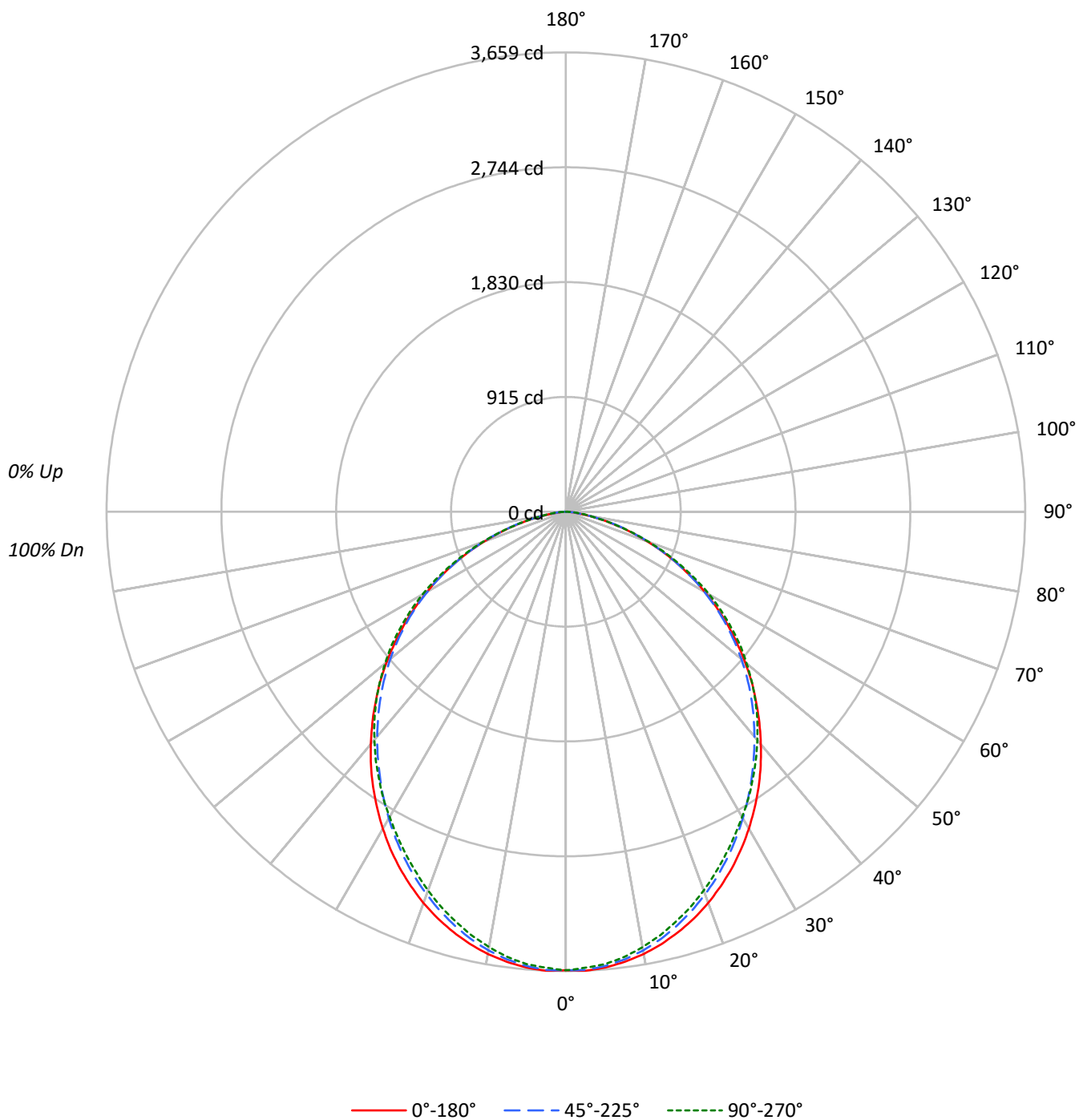
Lumens per Lamp: N/A
Luminaire Lumens: 8889.0 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
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	92	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	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	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4914	4914	4914
5°	4921	4905	4883
10°	4886	4847	4810
15°	4826	4756	4710
20°	4748	4643	4597
25°	4648	4518	4472
30°	4529	4382	4362
35°	4396	4240	4266
40°	4243	4106	4168
45°	4079	3969	4066
50°	3900	3821	3936
55°	3694	3645	3773
60°	3446	3426	3557
65°	3134	3135	3224
70°	2706	2737	2776
75°	2156	2218	2192
80°	1461	1541	1545
85°	750	1028	1314

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4079 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.4	3.9
10°-20°	961.8	10.8
20°-30°	1406.3	15.8
30°-40°	1631.0	18.3
40°-50°	1628.2	18.3
50°-60°	1402.5	15.8
60°-70°	978.8	11.0
70°-80°	452.1	5.1
80°-90°	84.7	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°	2711.6	30.5
0°-40°	4342.6	48.9
0°-60°	7373.3	82.9
0°-90°	8889.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8889.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3652	3652	3652	3652	3652	
5°	3643	3630	3632	3611	3615	346
15°	3465	3441	3414	3379	3381	977
25°	3131	3095	3043	3008	3013	1441
35°	2676	2631	2581	2580	2597	1673
45°	2144	2104	2086	2114	2137	1654
55°	1575	1544	1554	1592	1609	1406
65°	984	970	985	1002	1013	974
75°	415	410	427	423	422	446
85°	49	54	67	80	85	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3651.9	3651.9	3651.9	3651.9	3651.9
2.5°	3659.3	3647.4	3651.9	3635.9	3634.9
5°	3643.3	3630.1	3631.5	3610.6	3615.3
7.5°	3615.3	3600.0	3596.0	3572.2	3576.6
10°	3576.4	3557.6	3547.4	3518.4	3520.7
12.5°	3526.7	3505.4	3487.6	3454.0	3457.8
15°	3464.7	3440.7	3414.0	3378.8	3381.0
17.5°	3396.5	3370.4	3332.9	3295.5	3301.5
20°	3315.7	3287.1	3242.9	3204.0	3210.4
22.5°	3226.2	3193.7	3147.7	3109.1	3112.6
25°	3130.7	3094.8	3043.3	3008.3	3012.6
27.5°	3026.9	2986.9	2934.4	2903.2	2910.4
30°	2915.3	2873.5	2820.3	2797.1	2807.4
32.5°	2797.9	2754.9	2703.3	2691.2	2706.6
35°	2676.3	2630.6	2581.3	2579.9	2596.9
37.5°	2549.8	2504.8	2460.6	2469.6	2487.3
40°	2415.9	2373.8	2337.8	2353.8	2373.0
42.5°	2281.2	2240.7	2213.4	2236.8	2257.5
45°	2143.9	2103.5	2086.1	2114.5	2136.6
47.5°	2007.2	1966.6	1958.0	1990.8	2010.6
50°	1863.4	1827.2	1825.4	1860.9	1880.4
52.5°	1718.2	1684.7	1690.9	1729.1	1752.8
55°	1574.9	1543.6	1553.9	1591.8	1608.6
57.5°	1427.5	1402.7	1416.1	1449.9	1466.5
60°	1280.7	1257.9	1273.3	1305.7	1321.9
62.5°	1132.4	1112.6	1130.2	1157.3	1167.9
65°	984.3	969.5	984.6	1002.2	1012.7
67.5°	838.5	824.6	841.1	858.0	861.8
70°	687.9	679.1	695.8	705.8	705.7
72.5°	549.2	540.6	556.5	560.3	557.4
75°	414.8	410.3	426.7	423.1	421.6
77.5°	292.6	294.8	303.4	300.8	300.0
80°	188.5	195.1	198.9	200.8	199.4
82.5°	105.9	112.0	117.7	131.7	137.2
85°	48.6	54.5	66.6	79.7	85.1
87.5°	16.4	21.1	28.0	30.1	28.5
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	16.46	18.04	16.82	18.36	18.67	16.68	18.27	17.05	18.58	18.89
	3H	17.92	19.35	18.30	19.67	20.03	18.15	19.57	18.53	19.90	20.26
	4H	18.35	19.69	18.75	20.03	20.41	18.56	19.90	18.96	20.25	20.63
	6H	18.56	19.79	18.97	20.16	20.55	18.77	20.01	19.18	20.37	20.76
	8H	18.58	19.76	19.01	20.15	20.55	18.82	20.00	19.24	20.39	20.78
	12H	18.58	19.71	19.01	20.09	20.52	18.84	19.97	19.27	20.35	20.78
4H	2H	17.02	18.35	17.42	18.70	19.08	17.20	18.54	17.60	18.88	19.26
	3H	18.66	19.77	19.07	20.17	20.57	18.85	19.96	19.26	20.36	20.76
	4H	19.17	20.17	19.60	20.58	21.02	19.36	20.36	19.79	20.77	21.21
	6H	19.45	20.32	19.91	20.77	21.22	19.65	20.52	20.10	20.96	21.42
	8H	19.50	20.31	19.96	20.75	21.22	19.71	20.53	20.18	20.97	21.44
	12H	19.51	20.24	19.99	20.71	21.19	19.76	20.49	20.25	20.97	21.44
8H	4H	19.36	20.17	19.82	20.61	21.08	19.53	20.34	19.99	20.79	21.25
	6H	19.70	20.37	20.19	20.86	21.34	19.87	20.55	20.37	21.04	21.51
	8H	19.77	20.37	20.28	20.88	21.37	19.98	20.58	20.49	21.09	21.57
	12H	19.80	20.33	20.31	20.83	21.39	20.07	20.60	20.58	21.09	21.65
12H	4H	19.36	20.08	19.84	20.56	21.03	19.53	20.25	20.01	20.73	21.20
	6H	19.70	20.30	20.21	20.81	21.30	19.87	20.47	20.38	20.98	21.47
	8H	19.80	20.33	20.31	20.83	21.39	20.01	20.54	20.52	21.03	21.60