

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: P1499108

Luminaire Tested: MAE-G-4-120-1STD-HI-30-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1STD-HI-30-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

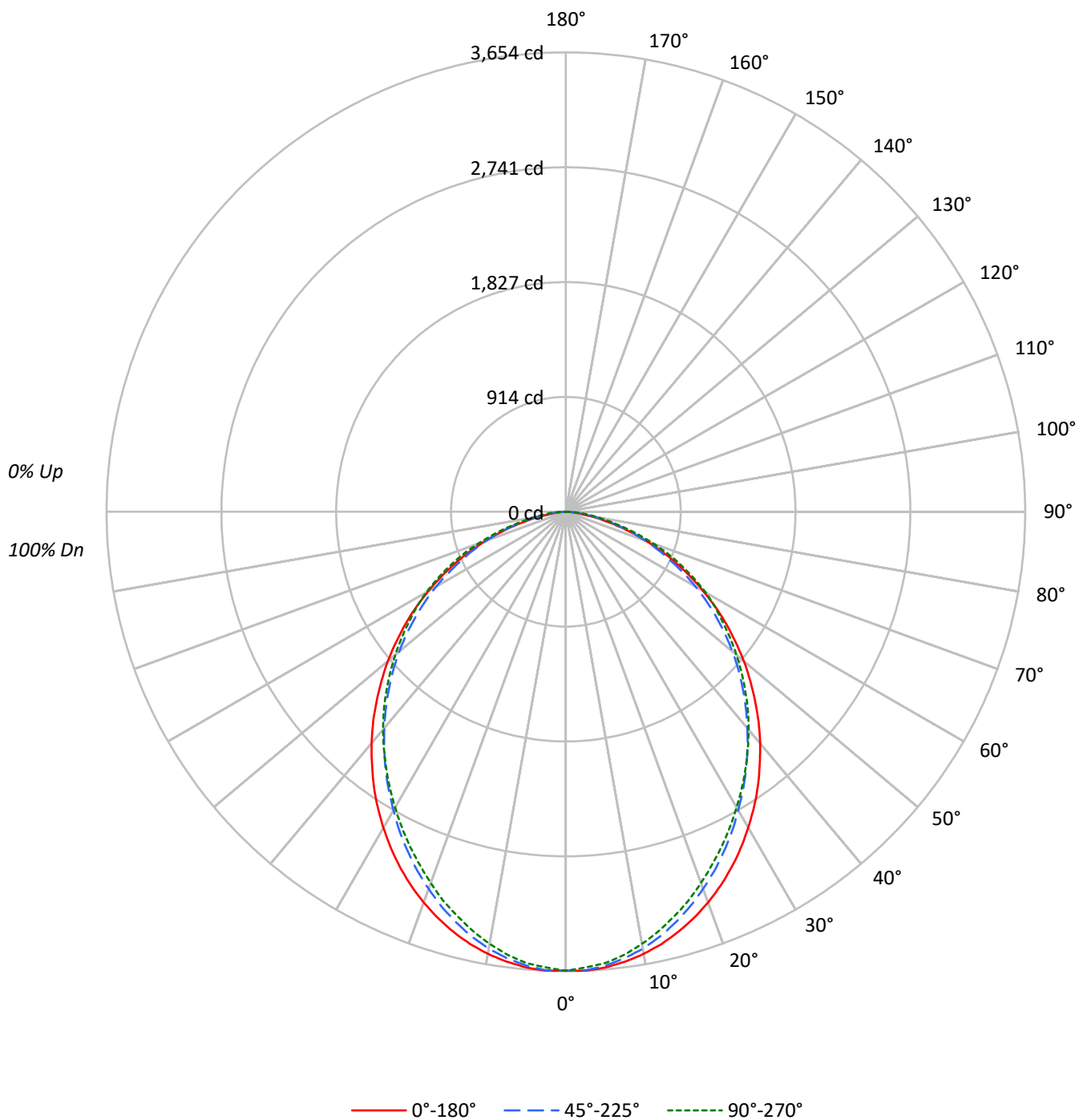
Lumens per Lamp: N/A
Luminaire Lumens: 8696.0 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 123
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	102	102	100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	74	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	63	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	34	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	28	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4911	4911	4911
5°	4913	4893	4867
10°	4879	4820	4768
15°	4818	4707	4639
20°	4735	4569	4500
25°	4632	4422	4358
30°	4508	4259	4220
35°	4375	4106	4093
40°	4222	3946	3973
45°	4051	3788	3842
50°	3869	3621	3706
55°	3658	3427	3568
60°	3399	3206	3451
65°	3097	2927	3235
70°	2691	2647	2924
75°	2152	2282	2466
80°	1495	1804	2016
85°	837	1403	1851

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4051 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.5	3.9
10°-20°	953.1	11.0
20°-30°	1381.6	15.9
30°-40°	1586.9	18.2
40°-50°	1567.8	18.0
50°-60°	1340.6	15.4
60°-70°	948.7	10.9
70°-80°	469.3	5.4
80°-90°	105.5	1.2
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°	2677.1	30.8
0°-40°	4264.0	49.0
0°-60°	7172.5	82.5
0°-90°	8696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8696.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3650	3650	3650	3650	3650	
5°	3638	3635	3623	3595	3604	345
15°	3459	3438	3379	3327	3330	975
25°	3120	3069	2979	2930	2936	1436
35°	2664	2593	2500	2479	2492	1664
45°	2129	2063	1990	2003	2019	1642
55°	1559	1498	1461	1493	1521	1392
65°	973	924	919	987	1016	962
75°	414	393	439	471	474	447
85°	54	67	91	111	120	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3650.1	3650.1	3650.1	3650.1	3650.1
2.5°	3654.3	3657.6	3650.1	3621.8	3627.4
5°	3637.9	3634.9	3623.1	3595.3	3603.7
7.5°	3609.0	3603.6	3582.3	3549.0	3554.3
10°	3570.8	3559.9	3528.0	3485.9	3489.9
12.5°	3521.0	3506.1	3460.7	3412.2	3416.1
15°	3459.0	3437.6	3379.3	3327.1	3330.5
17.5°	3387.8	3362.6	3291.5	3234.7	3243.3
20°	3307.2	3273.6	3191.3	3136.3	3142.8
22.5°	3218.1	3176.1	3089.1	3035.1	3039.1
25°	3120.0	3069.4	2978.8	2930.5	2935.5
27.5°	3014.5	2958.5	2864.2	2819.0	2828.0
30°	2901.8	2841.1	2741.6	2706.5	2716.4
32.5°	2785.6	2720.9	2622.3	2595.2	2605.0
35°	2663.6	2593.2	2499.6	2478.7	2491.6
37.5°	2533.2	2465.0	2371.9	2365.4	2377.1
40°	2403.8	2333.3	2246.5	2246.9	2261.8
42.5°	2269.1	2200.5	2120.0	2125.8	2143.4
45°	2129.2	2062.7	1990.5	2002.6	2019.0
47.5°	1988.3	1922.9	1861.2	1877.4	1898.0
50°	1848.5	1785.1	1729.7	1751.9	1770.5
52.5°	1701.3	1641.0	1597.4	1621.9	1647.6
55°	1559.3	1498.2	1461.0	1492.7	1520.9
57.5°	1412.2	1360.3	1327.5	1368.1	1404.5
60°	1263.1	1212.4	1191.4	1246.8	1282.5
62.5°	1116.7	1067.4	1053.3	1121.7	1149.3
65°	972.7	924.4	919.3	986.6	1016.2
67.5°	829.4	785.6	796.8	864.2	884.9
70°	684.0	644.7	672.8	731.4	743.4
72.5°	546.9	514.2	556.0	599.9	604.9
75°	414.0	393.2	439.0	470.9	474.3
77.5°	296.6	285.8	329.8	353.8	358.2
80°	192.9	197.0	232.8	252.7	260.2
82.5°	112.6	123.2	151.8	178.7	186.5
85°	54.2	67.0	90.9	111.3	119.9
87.5°	18.6	27.1	38.2	42.4	41.3
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	16.34	17.93	16.71	18.24	18.56	16.38	17.96	16.74	18.28	18.59
	3H	17.80	19.23	18.18	19.56	19.92	18.07	19.49	18.44	19.82	20.18
	4H	18.24	19.58	18.64	19.92	20.30	18.60	19.94	19.00	20.29	20.67
	6H	18.46	19.70	18.87	20.07	20.46	18.94	20.18	19.35	20.54	20.93
	8H	18.50	19.68	18.92	20.07	20.47	19.04	20.22	19.47	20.61	21.01
	12H	18.50	19.63	18.93	20.02	20.44	19.11	20.25	19.54	20.63	21.06
4H	2H	16.85	18.19	17.25	18.53	18.91	16.88	18.22	17.27	18.56	18.94
	3H	18.49	19.61	18.90	20.01	20.41	18.77	19.88	19.18	20.28	20.68
	4H	19.01	20.02	19.44	20.43	20.87	19.42	20.43	19.86	20.84	21.28
	6H	19.32	20.20	19.78	20.64	21.10	19.87	20.74	20.32	21.18	21.64
	8H	19.38	20.20	19.84	20.64	21.11	20.01	20.83	20.47	21.27	21.74
	12H	19.40	20.14	19.88	20.61	21.08	20.12	20.86	20.60	21.33	21.80
8H	4H	19.24	20.06	19.71	20.51	20.97	19.61	20.43	20.08	20.88	21.34
	6H	19.62	20.30	20.12	20.79	21.26	20.15	20.82	20.64	21.31	21.79
	8H	19.71	20.32	20.22	20.83	21.31	20.35	20.95	20.86	21.46	21.95
	12H	19.77	20.30	20.28	20.80	21.36	20.53	21.06	21.03	21.55	22.11
12H	4H	19.26	19.99	19.74	20.47	20.94	19.61	20.35	20.10	20.82	21.29
	6H	19.65	20.25	20.16	20.76	21.25	20.15	20.76	20.67	21.27	21.76
	8H	19.78	20.32	20.29	20.81	21.37	20.40	20.94	20.91	21.43	21.99