

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: P1499057

Luminaire Tested: MAE-G-4-120-1LO-STD-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499057
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-4-120-1LO-STD-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

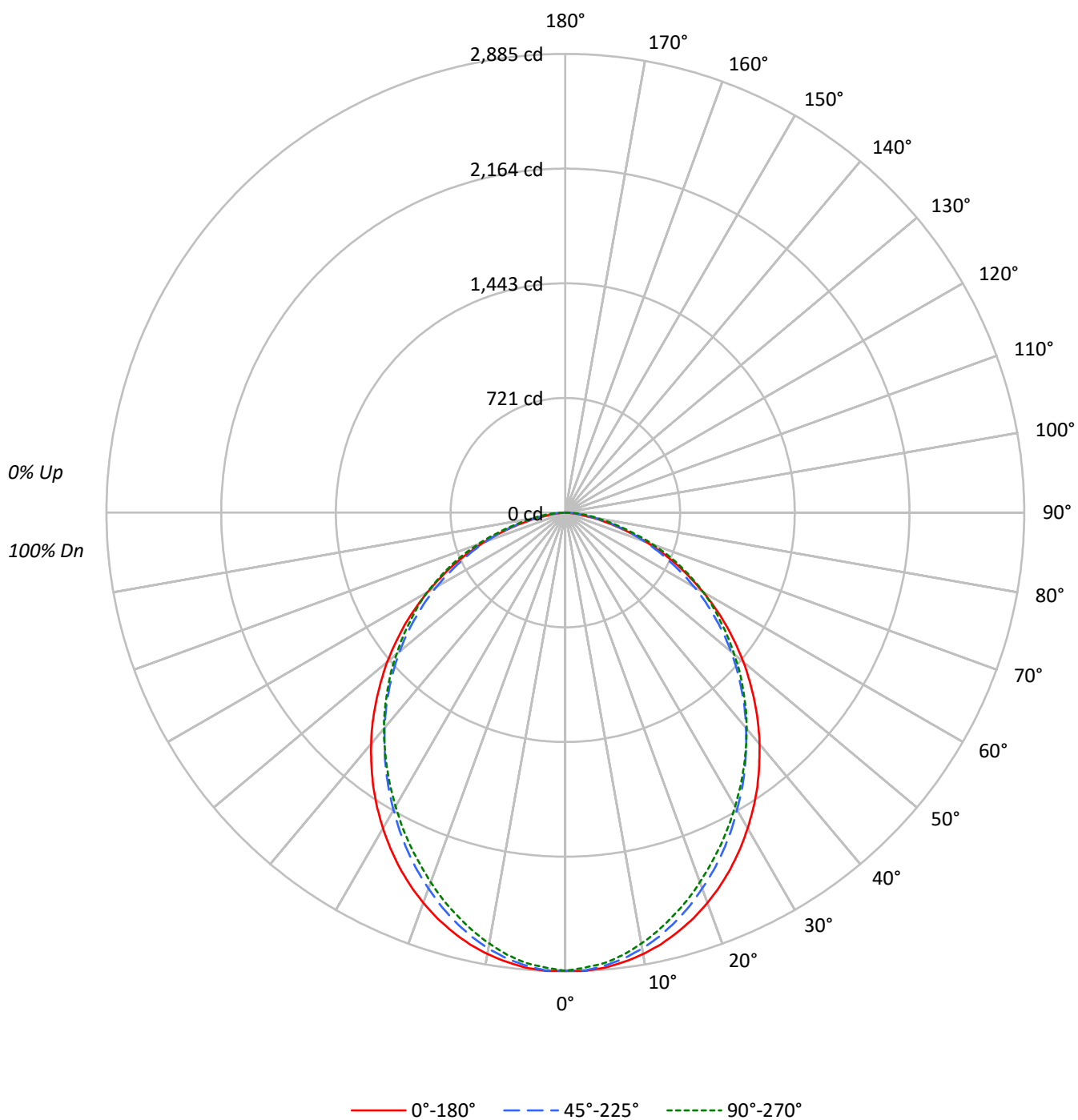
Lumens per Lamp: N/A
Luminaire Lumens: 6852.0 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 92.5
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

TEST NUMBER: P1499057

CATALOG NUMBER: MAE-G-4-120-1LO-STD-30-90-WDDCPH

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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		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	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3877	3877	3877
5°	3879	3863	3841
10°	3852	3804	3760
15°	3804	3713	3655
20°	3740	3602	3542
25°	3658	3484	3427
30°	3561	3354	3315
35°	3457	3232	3212
40°	3337	3104	3115
45°	3203	2979	3010
50°	3060	2846	2901
55°	2893	2694	2791
60°	2690	2520	2701
65°	2452	2302	2540
70°	2131	2087	2310
75°	1707	1809	1968
80°	1186	1443	1629
85°	665	1132	1501

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3203 cd/sqm

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CATALOG NUMBER: MAE-G-4-120-1LO-STD-30-90-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.3	3.9
10°-20°	751.7	11.0
20°-30°	1088.7	15.9
30°-40°	1249.5	18.2
40°-50°	1233.5	18.0
50°-60°	1054.2	15.4
60°-70°	747.0	10.9
70°-80°	372.3	5.4
80°-90°	84.8	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°	2110.7	30.8
0°-40°	3360.1	49.0
0°-60°	5647.8	82.4
0°-90°	6852.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6852.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2882	2882	2882	2882	2882	
5°	2872	2870	2860	2837	2844	272
15°	2731	2714	2665	2622	2624	770
25°	2464	2422	2347	2306	2308	1134
35°	2105	2046	1967	1947	1956	1315
45°	1683	1628	1565	1571	1582	1298
55°	1233	1182	1148	1169	1190	1101
65°	770	730	723	775	798	762
75°	328	311	348	375	379	354
85°	43	54	73	90	97	61
90°	0	0	0	0	0	

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CATALOG NUMBER: MAE-G-4-120-1LO-STD-30-90-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2881.5	2881.5	2881.5	2881.5	2881.5
2.5°	2884.7	2887.4	2881.5	2858.7	2863.5
5°	2871.8	2869.6	2860.0	2837.3	2843.9
7.5°	2849.2	2844.8	2827.4	2800.1	2804.2
10°	2819.1	2810.3	2784.0	2749.5	2752.4
12.5°	2779.9	2767.6	2730.3	2690.2	2693.0
15°	2731.1	2713.5	2665.4	2621.9	2624.2
17.5°	2675.1	2654.1	2595.3	2547.9	2554.1
20°	2611.7	2583.8	2515.6	2469.5	2473.8
22.5°	2541.5	2506.8	2434.6	2388.8	2391.0
25°	2464.2	2422.5	2347.0	2305.5	2308.4
27.5°	2381.1	2334.9	2255.9	2216.9	2222.8
30°	2292.3	2242.3	2159.0	2127.6	2134.0
32.5°	2200.9	2147.3	2064.5	2039.3	2045.7
35°	2104.6	2046.4	1967.4	1947.1	1955.7
37.5°	2001.8	1945.3	1866.6	1857.3	1864.9
40°	1899.8	1841.2	1767.4	1763.6	1773.7
42.5°	1793.4	1736.5	1667.5	1667.9	1679.9
45°	1683.2	1627.6	1565.4	1570.7	1581.8
47.5°	1572.0	1517.4	1463.5	1472.1	1486.4
50°	1461.7	1408.6	1359.7	1373.2	1385.7
52.5°	1345.3	1295.0	1255.6	1270.8	1289.1
55°	1233.3	1182.3	1148.4	1169.3	1189.6
57.5°	1117.3	1073.5	1043.4	1071.6	1098.4
60°	999.6	956.9	936.3	976.6	1003.6
62.5°	883.9	842.5	828.0	879.3	900.8
65°	770.2	729.7	723.0	775.0	797.9
67.5°	656.7	620.2	627.1	680.1	696.4
70°	541.8	509.0	530.5	577.1	587.2
72.5°	433.4	406.2	439.2	475.3	480.0
75°	328.3	310.7	348.0	374.9	378.6
77.5°	235.3	226.2	262.5	283.5	287.9
80°	153.1	156.3	186.2	203.7	210.2
82.5°	89.5	98.1	122.1	144.4	151.0
85°	43.1	53.5	73.3	90.1	97.2
87.5°	14.8	21.7	30.9	34.3	33.4
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	15.53	17.11	15.89	17.43	17.74	15.51	17.09	15.87	17.41	17.72
	3H	16.99	18.42	17.37	18.74	19.11	17.21	18.64	17.59	18.96	19.32
	4H	17.43	18.77	17.83	19.12	19.49	17.76	19.10	18.16	19.45	19.83
	6H	17.65	18.89	18.07	19.26	19.65	18.12	19.36	18.53	19.72	20.11
	8H	17.69	18.87	18.12	19.26	19.66	18.23	19.41	18.65	19.80	20.20
	12H	17.70	18.83	18.13	19.21	19.64	18.31	19.44	18.74	19.82	20.25
4H	2H	16.03	17.37	16.43	17.71	18.09	16.01	17.35	16.41	17.70	18.07
	3H	17.68	18.80	18.09	19.19	19.59	17.92	19.04	18.33	19.44	19.84
	4H	18.20	19.21	18.63	19.62	20.06	18.59	19.60	19.02	20.01	20.45
	6H	18.51	19.39	18.97	19.83	20.29	19.06	19.93	19.51	20.37	20.83
	8H	18.57	19.39	19.03	19.83	20.30	19.21	20.03	19.67	20.47	20.94
	12H	18.60	19.33	19.08	19.81	20.28	19.33	20.06	19.81	20.54	21.01
8H	4H	18.43	19.25	18.90	19.70	20.16	18.79	19.61	19.25	20.05	20.52
	6H	18.81	19.49	19.31	19.98	20.46	19.34	20.02	19.84	20.51	20.99
	8H	18.91	19.52	19.42	20.02	20.51	19.55	20.16	20.07	20.67	21.16
	12H	18.97	19.50	19.47	19.99	20.56	19.74	20.28	20.25	20.77	21.33
12H	4H	18.45	19.18	18.93	19.66	20.13	18.79	19.52	19.27	20.00	20.47
	6H	18.84	19.45	19.35	19.96	20.45	19.35	19.96	19.86	20.47	20.96
	8H	18.98	19.52	19.49	20.01	20.57	19.61	20.15	20.12	20.64	21.20