

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: P1499561

Luminaire Tested: MAE-G-4-120-3LO-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-3LO-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

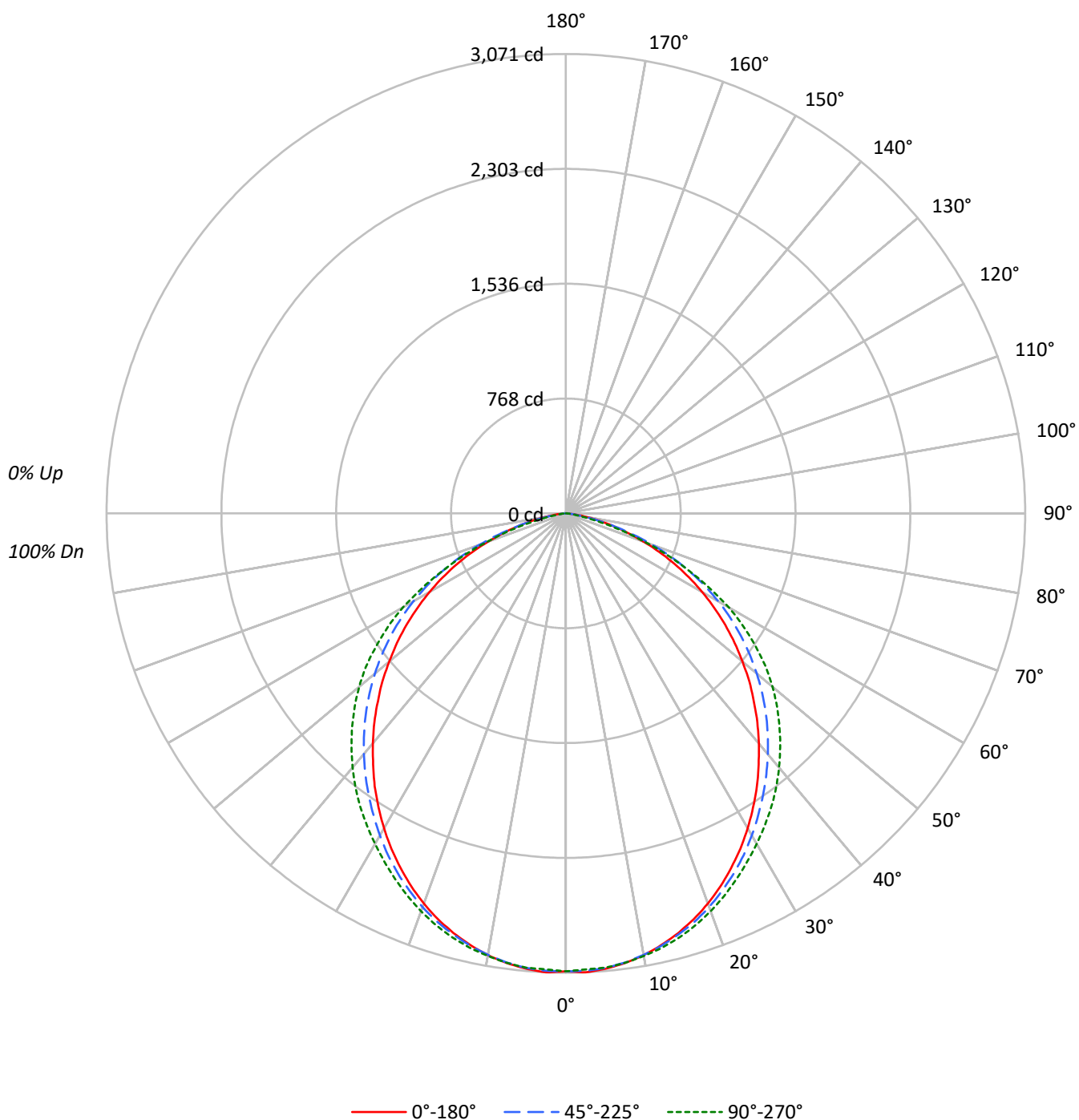
Lumens per Lamp: N/A
Luminaire Lumens: 7759.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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: P1499561

CATALOG NUMBER: MAE-G-4-120-3LO-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	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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	64	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	65	59	55	55	55	53
5	78	65	56	50	76	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	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4119	4119	4119
5°	4128	4119	4117
10°	4098	4096	4105
15°	4045	4058	4088
20°	3975	4011	4053
25°	3883	3945	4007
30°	3777	3863	3964
35°	3659	3775	3934
40°	3526	3690	3895
45°	3382	3599	3845
50°	3225	3488	3777
55°	3052	3352	3631
60°	2833	3168	3388
65°	2558	2889	2902
70°	2183	2426	2256
75°	1714	1770	1387
80°	1119	910	537
85°	536	360	286

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3845 cd/sqm

TEST NUMBER: P1499561

CATALOG NUMBER: MAE-G-4-120-3LO-30-90-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.2	3.7
10°-20°	821.0	10.6
20°-30°	1221.0	15.7
30°-40°	1438.8	18.5
40°-50°	1458.8	18.8
50°-60°	1271.2	16.4
60°-70°	869.4	11.2
70°-80°	349.2	4.5
80°-90°	40.5	0.5
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°	2331.1	30.0
0°-40°	3770.0	48.6
0°-60°	6499.9	83.8
0°-90°	7759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7759.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3061	3061	3061	3061	3061	
5°	3056	3038	3050	3046	3048	290
15°	2904	2891	2913	2925	2935	818
25°	2615	2616	2657	2676	2699	1204
35°	2228	2237	2298	2355	2395	1391
45°	1777	1801	1891	1976	2021	1372
55°	1301	1328	1429	1519	1548	1161
65°	803	840	907	914	912	794
75°	330	352	340	292	267	354
85°	35	31	23	20	18	53
90°	0	0	0	0	0	

TEST NUMBER: P1499561

CATALOG NUMBER: MAE-G-4-120-3LO-30-90-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3061.3	3061.3	3061.3	3061.3	3061.3
2.5°	3071.2	3050.7	3061.3	3059.1	3051.3
5°	3056.3	3037.9	3049.9	3046.5	3048.5
7.5°	3032.2	3015.3	3028.0	3027.4	3030.8
10°	2999.1	2982.0	2997.7	3000.5	3004.7
12.5°	2955.1	2941.0	2960.1	2965.7	2974.2
15°	2904.1	2891.4	2913.3	2925.4	2934.6
17.5°	2844.7	2834.0	2862.3	2873.8	2886.4
20°	2776.0	2768.3	2801.5	2812.1	2830.6
22.5°	2699.6	2695.4	2730.0	2746.3	2767.5
25°	2615.3	2616.1	2657.1	2676.3	2698.9
27.5°	2526.9	2528.3	2575.1	2601.9	2625.9
30°	2431.3	2435.6	2486.6	2519.9	2551.6
32.5°	2330.1	2338.6	2393.8	2439.2	2474.5
35°	2227.5	2237.3	2298.4	2354.8	2395.2
37.5°	2116.4	2132.7	2201.4	2268.6	2310.2
40°	2007.4	2023.6	2100.8	2175.1	2217.6
42.5°	1894.9	1915.4	1997.5	2080.3	2121.3
45°	1777.4	1801.3	1891.3	1976.2	2020.8
47.5°	1664.7	1686.0	1780.8	1869.4	1915.4
50°	1540.8	1567.7	1666.2	1758.9	1804.3
52.5°	1422.7	1447.4	1548.7	1643.6	1684.6
55°	1301.0	1328.5	1429.1	1518.9	1548.0
57.5°	1176.3	1209.6	1306.6	1381.7	1409.3
60°	1052.6	1085.7	1177.1	1238.7	1259.2
62.5°	929.3	964.8	1044.7	1085.7	1085.7
65°	803.4	839.5	907.4	914.4	911.6
67.5°	677.4	713.6	765.2	752.3	743.9
70°	554.9	586.0	616.6	593.1	573.4
72.5°	436.0	465.7	470.7	436.8	411.9
75°	329.8	351.8	340.4	292.4	266.9
77.5°	230.0	242.8	218.7	169.9	149.4
80°	144.4	150.0	117.5	82.8	69.3
82.5°	77.9	78.5	51.0	41.8	39.0
85°	34.7	31.1	23.3	20.5	18.5
87.5°	12.0	10.6	8.4	7.8	6.4
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	15.84	17.43	16.21	17.74	18.06	16.83	18.41	17.19	18.73	19.04
	3H	17.25	18.68	17.63	19.00	19.36	18.03	19.45	18.41	19.78	20.14
	4H	17.65	18.98	18.05	19.33	19.71	18.25	19.58	18.65	19.93	20.31
	6H	17.82	19.06	18.23	19.42	19.81	18.27	19.50	18.68	19.86	20.26
	8H	17.84	19.01	18.26	19.40	19.80	18.24	19.42	18.67	19.81	20.21
	12H	17.83	18.95	18.26	19.33	19.76	18.22	19.34	18.65	19.72	20.15
4H	2H	16.52	17.85	16.91	18.20	18.57	17.31	18.64	17.70	18.99	19.36
	3H	18.08	19.19	18.49	19.59	19.99	18.68	19.78	19.09	20.18	20.58
	4H	18.56	19.55	18.99	19.97	20.41	18.95	19.94	19.38	20.36	20.79
	6H	18.80	19.66	19.26	20.10	20.56	19.00	19.86	19.45	20.30	20.76
	8H	18.82	19.63	19.29	20.07	20.54	18.97	19.78	19.44	20.22	20.69
	12H	18.82	19.54	19.31	20.02	20.49	18.95	19.67	19.44	20.15	20.62
8H	4H	18.71	19.51	19.17	19.95	20.42	19.07	19.87	19.53	20.31	20.78
	6H	18.98	19.64	19.48	20.13	20.61	19.13	19.79	19.62	20.28	20.75
	8H	19.02	19.61	19.53	20.12	20.61	19.10	19.70	19.62	20.20	20.69
	12H	19.04	19.56	19.54	20.05	20.61	19.09	19.61	19.60	20.10	20.67
12H	4H	18.69	19.41	19.17	19.88	20.35	19.06	19.77	19.54	20.25	20.72
	6H	18.95	19.54	19.46	20.05	20.54	19.10	19.70	19.62	20.20	20.69
	8H	19.02	19.54	19.53	20.03	20.59	19.10	19.63	19.61	20.12	20.68