

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: P1499567

Luminaire Tested: MAE-G-4-120-3LO-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499567
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-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

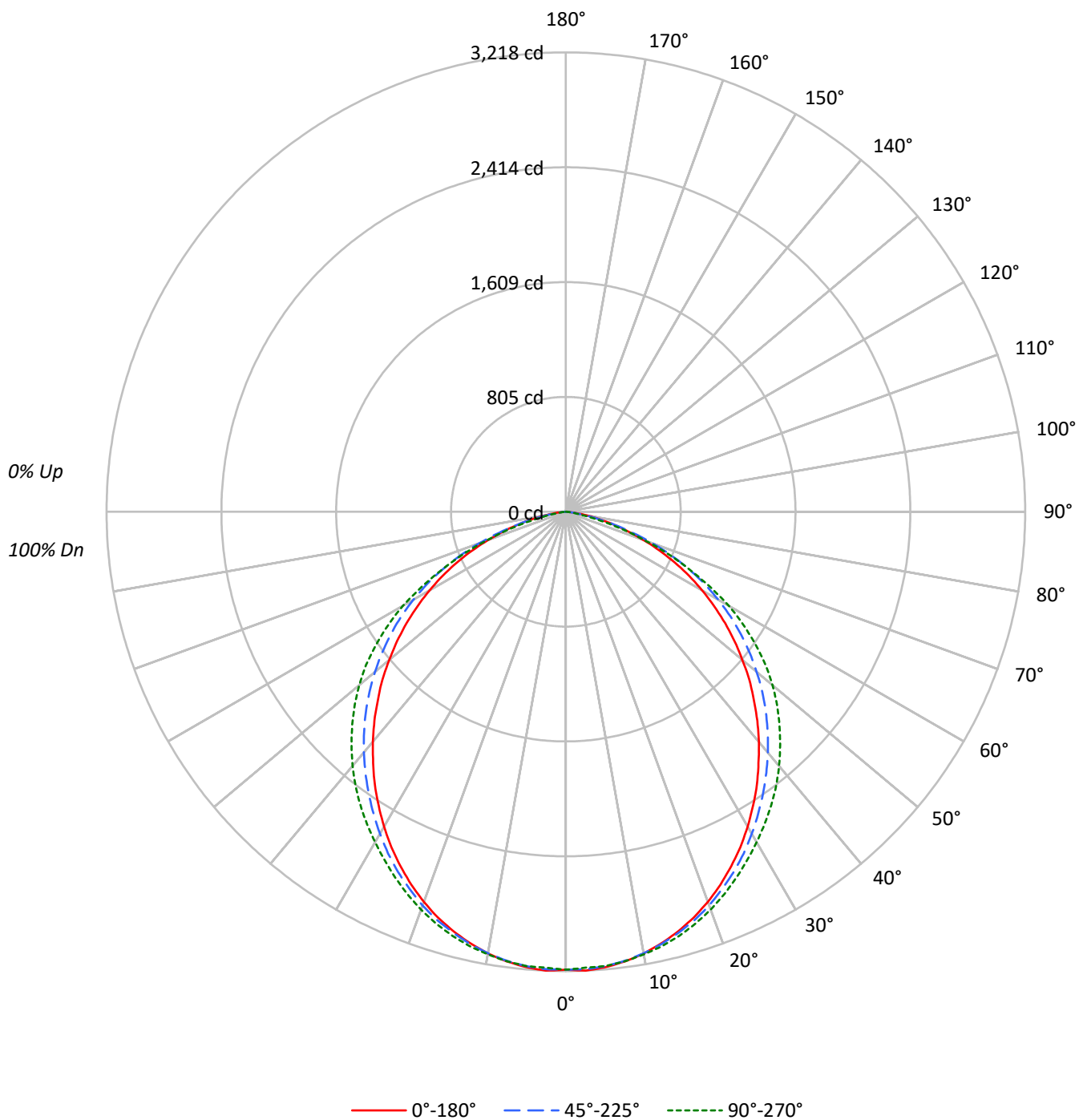
Lumens per Lamp: N/A
Luminaire Lumens: 8129.0 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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	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°	4315	4315	4315
5°	4325	4316	4314
10°	4293	4291	4301
15°	4238	4252	4283
20°	4164	4203	4246
25°	4068	4133	4198
30°	3958	4047	4153
35°	3833	3955	4122
40°	3694	3866	4081
45°	3543	3770	4029
50°	3379	3654	3957
55°	3197	3512	3805
60°	2968	3319	3550
65°	2680	3027	3041
70°	2287	2541	2363
75°	1796	1854	1454
80°	1172	954	563
85°	562	377	298

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4029 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.0	3.7
10°-20°	860.1	10.6
20°-30°	1279.2	15.7
30°-40°	1507.4	18.5
40°-50°	1528.4	18.8
50°-60°	1331.8	16.4
60°-70°	910.8	11.2
70°-80°	365.9	4.5
80°-90°	42.4	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°	2442.3	30.0
0°-40°	3949.7	48.6
0°-60°	6809.9	83.8
0°-90°	8129.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8129.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3207	3207	3207	3207	3207	
5°	3202	3183	3195	3192	3194	304
15°	3043	3029	3052	3065	3075	857
25°	2740	2741	2784	2804	2828	1261
35°	2334	2344	2408	2467	2509	1458
45°	1862	1887	1982	2070	2117	1437
55°	1363	1392	1497	1591	1622	1217
65°	842	880	951	958	955	832
75°	346	369	357	306	280	371
85°	36	33	24	22	19	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3207.3	3207.3	3207.3	3207.3	3207.3
2.5°	3217.6	3196.2	3207.3	3205.0	3196.8
5°	3202.1	3182.7	3195.4	3191.8	3193.9
7.5°	3176.8	3159.1	3172.4	3171.8	3175.4
10°	3142.1	3124.2	3140.6	3143.6	3148.0
12.5°	3096.0	3081.3	3101.3	3107.2	3116.0
15°	3042.6	3029.3	3052.3	3064.9	3074.6
17.5°	2980.3	2969.2	2998.8	3010.8	3024.1
20°	2908.4	2900.3	2935.1	2946.2	2965.6
22.5°	2828.4	2823.9	2860.2	2877.2	2899.5
25°	2740.0	2740.8	2783.8	2803.9	2827.6
27.5°	2647.4	2648.9	2697.9	2725.9	2751.2
30°	2547.3	2551.7	2605.1	2640.0	2673.3
32.5°	2441.2	2450.1	2507.9	2555.5	2592.5
35°	2333.7	2344.0	2408.0	2467.1	2509.4
37.5°	2217.3	2234.4	2306.3	2376.8	2420.4
40°	2103.1	2120.1	2200.9	2278.8	2323.4
42.5°	1985.2	2006.7	2092.8	2179.5	2222.4
45°	1862.1	1887.2	1981.5	2070.5	2117.2
47.5°	1744.1	1766.4	1865.7	1958.5	2006.7
50°	1614.3	1642.5	1745.6	1842.8	1890.3
52.5°	1490.6	1516.5	1622.5	1722.0	1764.9
55°	1363.0	1391.9	1497.3	1591.4	1621.9
57.5°	1232.4	1267.3	1368.9	1447.6	1476.5
60°	1102.8	1137.5	1233.2	1297.8	1319.3
62.5°	973.6	1010.8	1094.6	1137.5	1137.5
65°	841.7	879.5	950.7	958.0	955.1
67.5°	709.7	747.6	801.7	788.2	779.4
70°	581.4	614.0	646.0	621.4	600.7
72.5°	456.8	487.9	493.2	457.6	431.6
75°	345.5	368.6	356.7	306.3	279.6
77.5°	240.9	254.4	229.1	178.0	156.5
80°	151.3	157.2	123.1	86.7	72.6
82.5°	81.6	82.3	53.4	43.8	40.8
85°	36.4	32.6	24.4	21.5	19.3
87.5°	12.6	11.1	8.9	8.2	6.7
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	16.01	17.59	16.37	17.90	18.22	16.99	18.57	17.35	18.89	19.20
	3H	17.42	18.84	17.79	19.16	19.53	18.19	19.62	18.57	19.94	20.30
	4H	17.81	19.14	18.21	19.49	19.87	18.41	19.74	18.81	20.09	20.47
	6H	17.98	19.22	18.40	19.58	19.97	18.43	19.66	18.84	20.03	20.42
	8H	18.00	19.17	18.42	19.56	19.96	18.40	19.58	18.83	19.97	20.37
	12H	17.99	19.11	18.42	19.50	19.92	18.38	19.50	18.81	19.89	20.31
4H	2H	16.68	18.01	17.08	18.36	18.74	17.47	18.80	17.87	19.15	19.53
	3H	18.25	19.35	18.66	19.75	20.15	18.84	19.94	19.25	20.34	20.74
	4H	18.72	19.72	19.15	20.13	20.57	19.11	20.10	19.54	20.52	20.96
	6H	18.96	19.82	19.42	20.27	20.72	19.16	20.02	19.62	20.46	20.92
	8H	18.99	19.79	19.45	20.23	20.70	19.14	19.94	19.60	20.38	20.85
	12H	18.99	19.70	19.47	20.18	20.65	19.12	19.83	19.60	20.31	20.78
8H	4H	18.87	19.67	19.33	20.12	20.58	19.23	20.03	19.69	20.48	20.94
	6H	19.14	19.80	19.64	20.29	20.77	19.29	19.95	19.78	20.44	20.92
	8H	19.18	19.77	19.70	20.28	20.77	19.27	19.86	19.78	20.37	20.85
	12H	19.20	19.72	19.71	20.21	20.77	19.25	19.77	19.76	20.26	20.83
12H	4H	18.85	19.57	19.33	20.05	20.52	19.22	19.94	19.70	20.41	20.88
	6H	19.11	19.71	19.63	20.21	20.70	19.26	19.86	19.78	20.37	20.85
	8H	19.18	19.70	19.69	20.19	20.76	19.27	19.79	19.77	20.28	20.84