

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: P1499609

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499609
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-LO-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

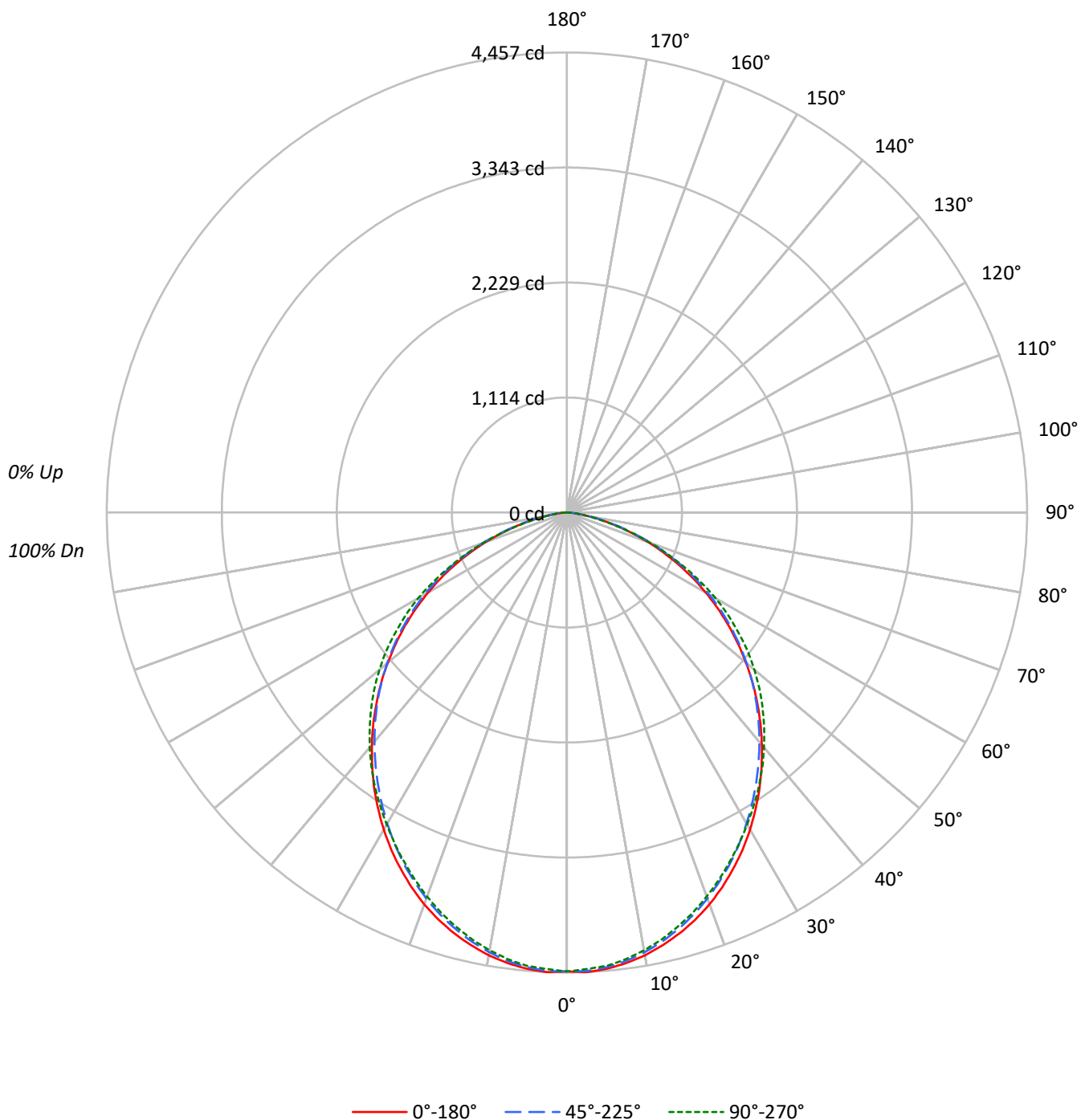
Lumens per Lamp: N/A
Luminaire Lumens: 10945.0 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 120.2
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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5982	5982	5982
5°	5993	5974	5955
10°	5952	5912	5884
15°	5879	5816	5786
20°	5783	5699	5670
25°	5656	5562	5542
30°	5511	5406	5423
35°	5347	5248	5323
40°	5161	5093	5217
45°	4959	4935	5100
50°	4739	4756	4961
55°	4490	4549	4757
60°	4182	4283	4485
65°	3799	3923	4009
70°	3271	3407	3377
75°	2599	2702	2519
80°	1749	1766	1634
85°	897	1102	1338

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5100 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.6	3.8
10°-20°	1176.5	10.7
20°-30°	1728.0	15.8
30°-40°	2012.1	18.4
40°-50°	2016.8	18.4
50°-60°	1743.0	15.9
60°-70°	1212.6	11.1
70°-80°	543.6	5.0
80°-90°	93.8	0.9
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°	3323.0	30.4
0°-40°	5335.1	48.7
0°-60°	9094.9	83.1
0°-90°	10945.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10945.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4446	4446	4446	4446	4446	
5°	4437	4418	4423	4403	4409	421
15°	4221	4194	4175	4147	4154	1189
25°	3810	3776	3746	3718	3733	1754
35°	3255	3215	3195	3210	3241	2034
45°	2606	2578	2594	2646	2680	2011
55°	1914	1894	1939	2005	2028	1709
65°	1193	1190	1232	1255	1259	1179
75°	500	504	520	500	484	537
85°	58	62	71	82	87	86
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4446.2	4446.2	4446.2	4446.2	4446.2
2.5°	4457.4	4438.9	4446.2	4430.3	4427.1
5°	4437.3	4418.3	4423.1	4402.8	4408.7
7.5°	4402.8	4382.6	4382.4	4360.3	4365.7
10°	4356.1	4332.4	4327.4	4302.2	4306.4
12.5°	4293.9	4269.4	4258.5	4229.8	4237.0
15°	4220.8	4193.9	4175.4	4147.3	4153.8
17.5°	4136.1	4106.4	4084.2	4051.5	4062.1
20°	4038.8	4007.0	3980.5	3945.6	3959.6
22.5°	3929.8	3896.5	3866.1	3835.0	3849.0
25°	3809.9	3776.3	3746.5	3718.2	3733.0
27.5°	3683.8	3646.3	3616.4	3596.4	3612.6
30°	3547.3	3508.6	3479.8	3467.6	3490.8
32.5°	3403.1	3365.0	3339.6	3340.8	3367.6
35°	3255.2	3214.9	3194.8	3209.6	3241.0
37.5°	3096.0	3062.3	3049.0	3077.3	3109.2
40°	2938.3	2903.1	2899.8	2937.0	2970.5
42.5°	2775.1	2744.2	2748.4	2796.1	2827.4
45°	2606.2	2577.6	2593.5	2645.9	2680.1
47.5°	2440.3	2410.9	2435.6	2493.1	2529.9
50°	2263.8	2240.0	2272.2	2336.3	2370.1
52.5°	2088.6	2065.7	2106.7	2174.4	2206.9
55°	1914.2	1893.6	1939.1	2004.7	2028.1
57.5°	1733.6	1722.1	1769.0	1826.6	1851.1
60°	1554.1	1544.3	1591.6	1644.7	1666.5
62.5°	1374.2	1368.8	1413.7	1456.5	1463.7
65°	1193.2	1190.2	1232.2	1254.8	1259.2
67.5°	1010.0	1012.4	1050.3	1061.5	1060.9
70°	831.6	831.5	866.0	868.5	858.5
72.5°	658.1	663.1	685.0	679.1	663.3
75°	499.9	504.4	519.7	499.6	484.5
77.5°	352.8	356.5	362.8	340.7	331.3
80°	225.7	232.6	227.9	217.3	210.9
82.5°	126.0	133.1	129.0	138.6	142.9
85°	58.1	62.3	71.4	82.2	86.7
87.5°	19.8	23.5	29.2	31.2	29.1
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	17.15	18.73	17.51	19.04	19.36	17.57	19.15	17.93	19.46	19.78
	3H	18.59	20.02	18.97	20.34	20.70	18.97	20.40	19.35	20.72	21.08
	4H	19.01	20.35	19.41	20.70	21.07	19.34	20.67	19.73	21.02	21.40
	6H	19.21	20.45	19.62	20.81	21.20	19.49	20.72	19.90	21.09	21.48
	8H	19.24	20.41	19.66	20.80	21.20	19.51	20.69	19.94	21.08	21.48
	12H	19.23	20.36	19.66	20.74	21.17	19.52	20.65	19.95	21.03	21.46
4H	2H	17.73	19.07	18.13	19.42	19.80	18.07	19.41	18.47	19.76	20.14
	3H	19.35	20.47	19.76	20.86	21.27	19.66	20.78	20.07	21.17	21.57
	4H	19.86	20.86	20.29	21.27	21.71	20.11	21.11	20.54	21.53	21.96
	6H	20.13	21.00	20.59	21.44	21.90	20.33	21.20	20.79	21.64	22.10
	8H	20.17	20.98	20.63	21.43	21.89	20.37	21.18	20.83	21.63	22.09
	12H	20.18	20.91	20.66	21.38	21.85	20.40	21.13	20.88	21.60	22.07
8H	4H	20.04	20.85	20.50	21.29	21.76	20.27	21.08	20.73	21.53	21.99
	6H	20.37	21.03	20.86	21.52	22.00	20.54	21.21	21.03	21.70	22.17
	8H	20.43	21.03	20.94	21.54	22.02	20.60	21.20	21.11	21.71	22.20
	12H	20.46	20.99	20.97	21.48	22.04	20.66	21.19	21.17	21.68	22.25
12H	4H	20.04	20.76	20.52	21.24	21.71	20.27	20.99	20.75	21.47	21.94
	6H	20.36	20.96	20.87	21.47	21.95	20.53	21.13	21.04	21.64	22.13
	8H	20.45	20.98	20.96	21.47	22.04	20.63	21.16	21.14	21.65	22.21