

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: P1499708

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499708
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-4-120-3STD-LO-30-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

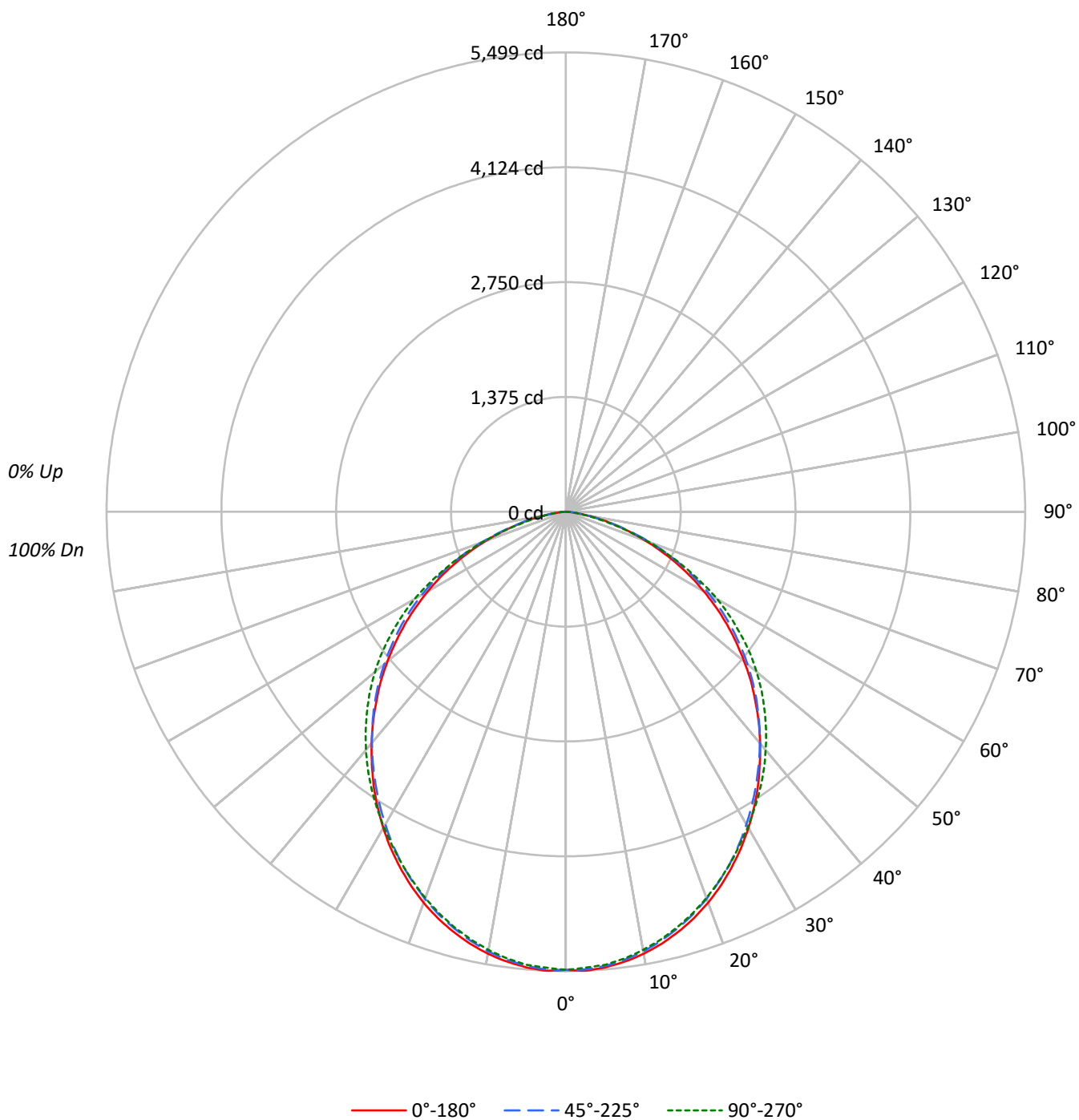
Lumens per Lamp: N/A
Luminaire Lumens: 13576.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 150.6
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	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	88	88	86
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	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	40
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	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7379	7379	7379
5°	7393	7371	7351
10°	7341	7301	7276
15°	7251	7192	7172
20°	7131	7060	7044
25°	6973	6900	6900
30°	6792	6716	6768
35°	6587	6528	6658
40°	6356	6344	6538
45°	6106	6155	6404
50°	5832	5939	6242
55°	5525	5685	5989
60°	5142	5357	5634
65°	4666	4903	4993
70°	4012	4229	4142
75°	3180	3302	2989
80°	2128	2074	1816
85°	1079	1224	1434

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6404 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.7	3.8
10°-20°	1454.8	10.7
20°-30°	2142.0	15.8
30°-40°	2499.9	18.4
40°-50°	2511.4	18.5
50°-60°	2174.1	16.0
60°-70°	1507.4	11.1
70°-80°	662.1	4.9
80°-90°	107.5	0.8
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°	4113.5	30.3
0°-40°	6613.4	48.7
0°-60°	11299.0	83.2
0°-90°	13576.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13576.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5484	5484	5484	5484	5484	
5°	5474	5448	5457	5436	5442	519
15°	5206	5174	5163	5139	5149	1467
25°	4697	4663	4648	4626	4648	2162
35°	4010	3974	3974	4008	4053	2506
45°	3209	3188	3235	3316	3365	2476
55°	2355	2344	2424	2520	2553	2103
65°	1466	1475	1540	1565	1568	1449
75°	612	624	635	599	575	657
85°	70	73	79	89	93	104
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5484.3	5484.3	5484.3	5484.3	5484.3
2.5°	5498.8	5473.4	5484.3	5467.7	5461.8
5°	5473.7	5448.4	5457.3	5435.8	5442.4
7.5°	5431.0	5405.1	5409.2	5386.8	5393.5
10°	5373.0	5343.6	5343.8	5319.6	5325.3
12.5°	5296.0	5266.7	5262.3	5235.5	5245.5
15°	5205.6	5174.4	5163.3	5139.3	5148.9
17.5°	5100.7	5067.4	5054.8	5025.9	5040.9
20°	4980.1	4945.7	4930.4	4899.2	4919.4
22.5°	4845.3	4810.5	4791.8	4766.2	4787.5
25°	4696.7	4663.4	4647.5	4625.7	4648.1
27.5°	4540.7	4503.7	4489.6	4478.6	4503.1
30°	4371.8	4334.4	4322.9	4322.0	4356.1
32.5°	4193.2	4157.9	4151.3	4167.8	4206.7
35°	4010.5	3973.6	3974.1	4008.1	4053.2
37.5°	3813.7	3785.4	3795.4	3846.6	3892.6
40°	3618.9	3589.3	3612.1	3674.5	3722.5
42.5°	3417.6	3393.7	3425.7	3501.5	3546.6
45°	3208.9	3188.4	3234.8	3316.0	3365.4
47.5°	3004.8	2982.6	3039.5	3127.0	3179.4
50°	2786.3	2771.7	2837.1	2932.8	2981.9
52.5°	2571.1	2556.6	2631.8	2731.8	2778.1
55°	2355.4	2344.1	2423.7	2519.8	2553.1
57.5°	2132.5	2132.3	2212.1	2295.2	2328.9
60°	1911.0	1912.5	1990.7	2064.8	2093.5
62.5°	1689.3	1696.0	1768.0	1824.7	1831.9
65°	1465.6	1474.9	1539.9	1564.9	1568.3
67.5°	1239.7	1254.3	1309.7	1316.7	1313.2
70°	1019.8	1030.3	1075.0	1069.6	1052.9
72.5°	806.0	821.1	844.7	827.2	803.0
75°	611.7	623.8	635.2	598.7	575.0
77.5°	430.8	438.8	437.0	398.3	382.0
80°	274.7	283.5	267.7	245.3	234.4
82.5°	152.4	159.8	146.3	152.7	156.1
85°	69.9	72.9	79.3	89.1	92.9
87.5°	23.9	27.1	32.1	33.9	31.3
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	17.87	19.46	18.24	19.77	20.09	18.41	19.99	18.77	20.30	20.62
	3H	19.31	20.74	19.69	21.06	21.43	19.77	21.19	20.15	21.52	21.88
	4H	19.73	21.06	20.13	21.41	21.79	20.10	21.44	20.50	21.79	22.16
	6H	19.92	21.16	20.33	21.52	21.91	20.22	21.46	20.63	21.82	22.21
	8H	19.95	21.12	20.37	21.51	21.91	20.23	21.41	20.66	21.80	22.20
	12H	19.94	21.07	20.37	21.45	21.88	20.24	21.36	20.67	21.74	22.17
4H	2H	18.48	19.81	18.88	20.16	20.54	18.91	20.24	19.31	20.59	20.97
	3H	20.09	21.20	20.50	21.60	22.00	20.45	21.56	20.86	21.96	22.36
	4H	20.59	21.59	21.02	22.00	22.44	20.86	21.86	21.29	22.28	22.71
	6H	20.85	21.72	21.31	22.16	22.62	21.04	21.91	21.50	22.35	22.81
	8H	20.89	21.70	21.35	22.14	22.61	21.07	21.88	21.53	22.32	22.79
	12H	20.90	21.62	21.38	22.10	22.57	21.08	21.81	21.57	22.29	22.76
8H	4H	20.76	21.57	21.22	22.01	22.48	21.01	21.82	21.48	22.27	22.73
	6H	21.08	21.74	21.57	22.23	22.71	21.23	21.90	21.73	22.39	22.87
	8H	21.14	21.73	21.65	22.24	22.73	21.28	21.88	21.79	22.38	22.87
	12H	21.16	21.69	21.67	22.18	22.75	21.32	21.85	21.83	22.34	22.90
12H	4H	20.75	21.48	21.23	21.96	22.43	21.01	21.73	21.49	22.21	22.68
	6H	21.06	21.66	21.58	22.17	22.66	21.22	21.82	21.73	22.33	22.82
	8H	21.15	21.68	21.66	22.17	22.74	21.30	21.82	21.81	22.32	22.88

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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