

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: P1499651

Luminaire Tested: MAE-G-4-120-3LO-STD-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499651
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-STD-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

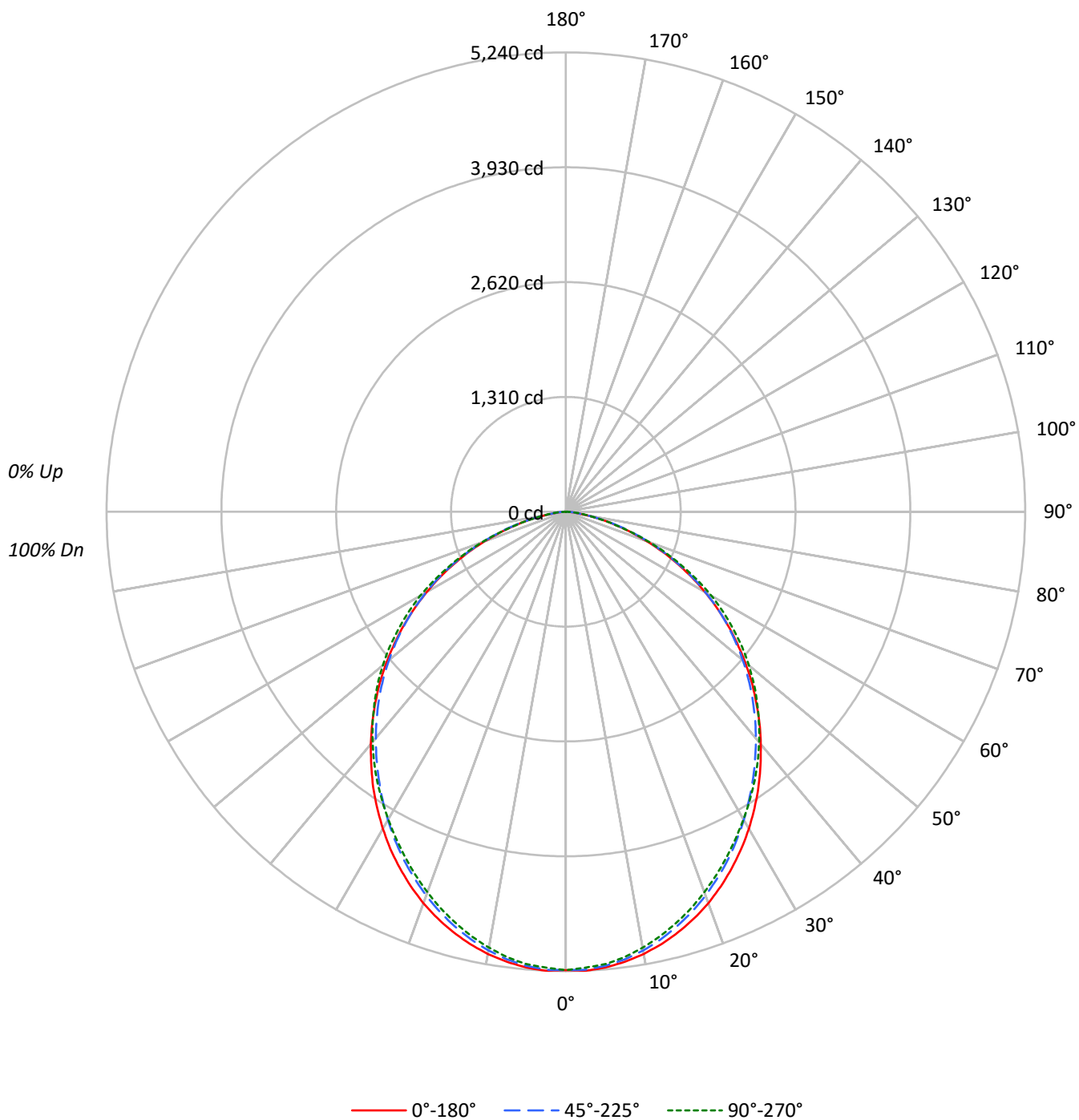
Lumens per Lamp: N/A
Luminaire Lumens: 12789.0 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 140.5
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

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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38
8	62	49	41	35	61	48	40	35	47	40	34	46	39	34	44	38	34
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7034	7034	7034
5°	7046	7022	6995
10°	6998	6943	6899
15°	6914	6820	6766
20°	6802	6670	6613
25°	6655	6498	6447
30°	6486	6306	6294
35°	6295	6112	6162
40°	6078	5922	6026
45°	5843	5730	5876
50°	5585	5516	5703
55°	5294	5269	5466
60°	4934	4957	5165
65°	4487	4545	4663
70°	3872	3976	3996
75°	3083	3210	3087
80°	2087	2187	2133
85°	1084	1440	1802

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5876 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.9	3.8
10°-20°	1379.4	10.8
20°-30°	2020.5	15.8
30°-40°	2346.5	18.3
40°-50°	2346.1	18.3
50°-60°	2023.9	15.8
60°-70°	1413.4	11.1
70°-80°	648.3	5.1
80°-90°	119.0	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°	3891.8	30.4
0°-40°	6238.3	48.8
0°-60°	10608.3	82.9
0°-90°	12789.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12789.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5228	5228	5228	5228	5228	
5°	5217	5197	5199	5171	5179	495
15°	4964	4930	4896	4851	4857	1399
25°	4483	4434	4377	4330	4343	2064
35°	3832	3772	3721	3722	3752	2394
45°	3071	3021	3011	3056	3088	2369
55°	2257	2218	2246	2307	2330	2015
65°	1410	1392	1428	1457	1464	1393
75°	593	592	618	606	594	637
85°	70	78	93	110	117	103
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5228.0	5228.0	5228.0	5228.0	5228.0
2.5°	5240.2	5221.3	5228.0	5206.2	5204.4
5°	5217.1	5196.7	5199.2	5171.4	5179.1
7.5°	5176.8	5154.1	5149.2	5117.8	5124.4
10°	5122.0	5094.5	5081.7	5044.8	5049.3
12.5°	5049.4	5019.7	4997.2	4954.4	4961.5
15°	4963.6	4929.9	4895.8	4851.4	4857.3
17.5°	4864.4	4826.1	4784.3	4733.5	4744.0
20°	4750.7	4708.2	4658.4	4604.9	4618.2
22.5°	4623.1	4577.1	4521.2	4471.1	4483.5
25°	4482.7	4434.4	4377.2	4330.1	4342.9
27.5°	4334.9	4281.0	4221.6	4183.4	4198.0
30°	4175.0	4118.3	4058.9	4029.6	4051.3
32.5°	4006.2	3948.7	3892.8	3878.0	3903.6
35°	3832.4	3771.6	3721.0	3721.8	3751.8
37.5°	3645.8	3592.0	3548.3	3564.5	3594.7
40°	3460.5	3404.6	3371.9	3398.3	3430.6
42.5°	3268.8	3217.4	3193.7	3231.8	3261.5
45°	3070.6	3021.2	3011.4	3055.5	3088.0
47.5°	2874.9	2825.4	2826.5	2876.3	2912.1
50°	2668.3	2624.8	2635.0	2693.0	2724.6
52.5°	2461.3	2420.0	2441.8	2503.9	2535.5
55°	2256.9	2217.7	2246.1	2307.2	2330.1
57.5°	2044.8	2016.4	2048.2	2103.1	2127.9
60°	1833.5	1807.7	1842.1	1895.6	1919.2
62.5°	1621.9	1601.4	1636.5	1682.8	1693.0
65°	1409.5	1392.3	1427.5	1457.2	1464.5
67.5°	1194.2	1184.4	1219.8	1240.6	1242.6
70°	984.2	972.9	1010.8	1022.9	1015.8
72.5°	780.0	776.4	805.9	809.7	796.1
75°	593.0	591.5	617.5	606.0	593.8
77.5°	419.4	420.1	437.9	424.0	417.9
80°	269.3	277.2	282.2	279.6	275.3
82.5°	151.4	161.2	165.2	182.2	189.4
85°	70.2	77.5	93.3	109.7	116.7
87.5°	23.8	29.7	38.6	41.6	39.1
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	17.71	19.29	18.08	19.61	19.92	18.00	19.59	18.37	19.90	20.21
	3H	19.16	20.59	19.54	20.92	21.28	19.46	20.88	19.83	21.21	21.57
	4H	19.59	20.93	19.99	21.27	21.65	19.86	21.20	20.26	21.54	21.92
	6H	19.79	21.03	20.21	21.40	21.79	20.05	21.28	20.46	21.65	22.04
	8H	19.82	21.00	20.25	21.39	21.79	20.09	21.27	20.51	21.65	22.05
	12H	19.82	20.95	20.25	21.33	21.76	20.11	21.24	20.54	21.62	22.05
4H	2H	18.28	19.62	18.68	19.97	20.34	18.52	19.86	18.92	20.20	20.58
	3H	19.91	21.03	20.32	21.42	21.82	20.16	21.27	20.57	21.67	22.07
	4H	20.42	21.42	20.85	21.84	22.27	20.65	21.65	21.08	22.07	22.51
	6H	20.70	21.57	21.16	22.02	22.47	20.92	21.79	21.37	22.23	22.69
	8H	20.75	21.56	21.21	22.00	22.47	20.98	21.79	21.44	22.23	22.70
	12H	20.76	21.49	21.24	21.96	22.43	21.02	21.75	21.50	22.23	22.70
8H	4H	20.61	21.43	21.07	21.87	22.33	20.82	21.64	21.28	22.08	22.54
	6H	20.95	21.62	21.44	22.11	22.59	21.14	21.81	21.64	22.30	22.78
	8H	21.02	21.62	21.53	22.13	22.61	21.23	21.83	21.75	22.34	22.83
	12H	21.05	21.58	21.56	22.08	22.64	21.32	21.85	21.82	22.34	22.90
12H	4H	20.61	21.34	21.09	21.82	22.29	20.82	21.55	21.30	22.02	22.49
	6H	20.95	21.55	21.46	22.06	22.54	21.14	21.74	21.65	22.25	22.74
	8H	21.05	21.58	21.56	22.07	22.64	21.26	21.80	21.77	22.29	22.85

END OF REPORT