

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: P1499684

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499684
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-HI-30-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

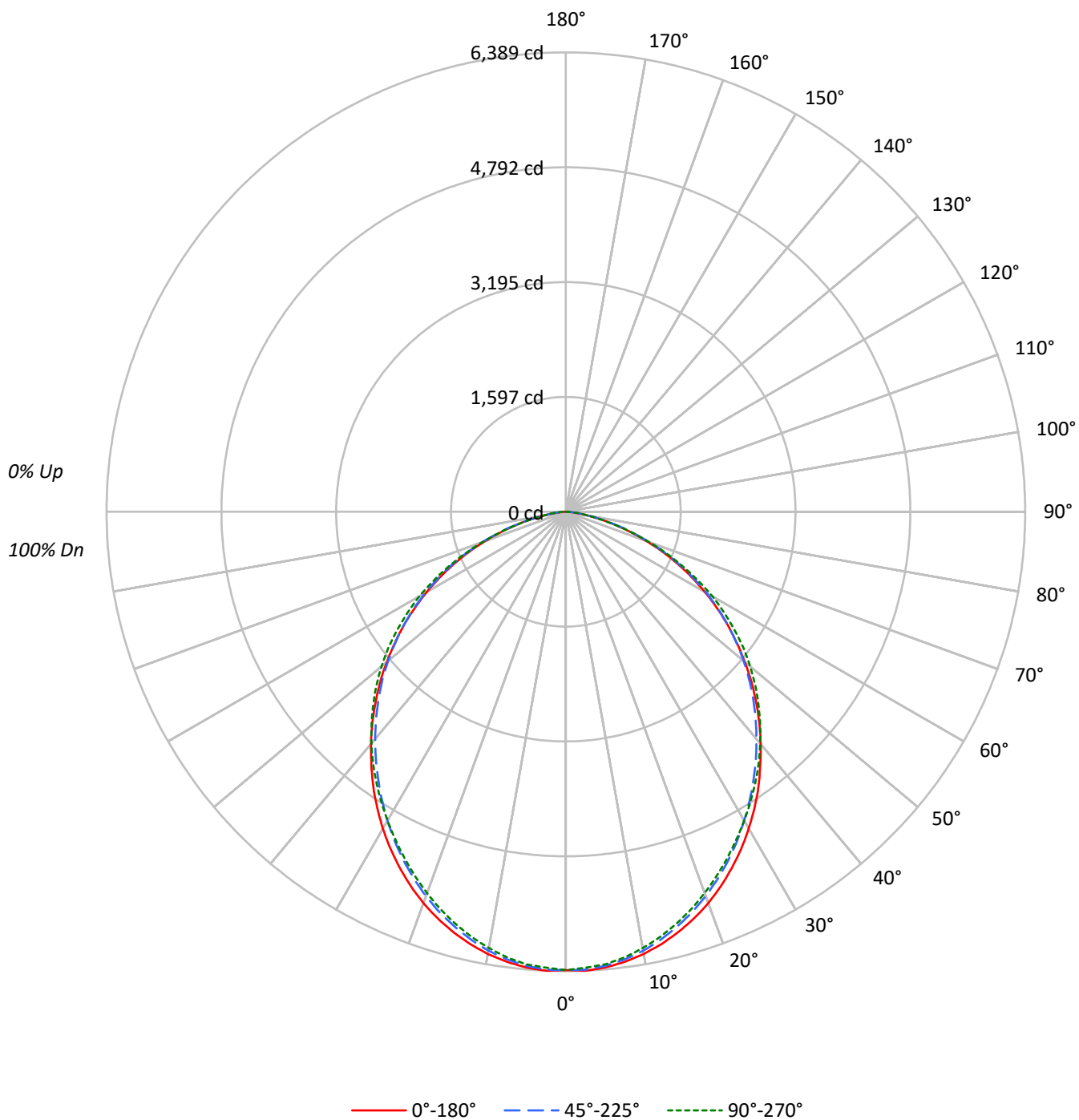
Lumens per Lamp: N/A
Luminaire Lumens: 15623.0 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 191.3
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	92	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	61
4	84	73	64	58	82	71	63	57	69	62	57	66	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	42	42	42	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	34	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8576	8576	8576
5°	8591	8562	8531
10°	8532	8468	8418
15°	8429	8322	8263
20°	8293	8144	8082
25°	8112	7939	7887
30°	7906	7708	7705
35°	7672	7474	7550
40°	7407	7246	7388
45°	7119	7014	7210
50°	6805	6754	7003
55°	6449	6454	6713
60°	6009	6074	6338
65°	5463	5567	5704
70°	4711	4859	4863
75°	3748	3901	3716
80°	2533	2624	2521
85°	1311	1701	2110

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7210 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.8	3.8
10°-20°	1683.2	10.8
20°-30°	2467.7	15.8
30°-40°	2868.2	18.4
40°-50°	2869.9	18.4
50°-60°	2477.3	15.9
60°-70°	1727.9	11.1
70°-80°	787.0	5.0
80°-90°	141.8	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°	4750.8	30.4
0°-40°	7619.0	48.8
0°-60°	12966.3	83.0
0°-90°	15623.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15623.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6374	6374	6374	6374	6374	
5°	6361	6335	6340	6307	6316	603
15°	6052	6011	5974	5924	5932	1705
25°	5464	5409	5347	5295	5312	2516
35°	4671	4602	4550	4557	4597	2918
45°	3741	3687	3686	3746	3789	2887
55°	2749	2707	2751	2832	2862	2454
65°	1716	1700	1748	1784	1792	1696
75°	721	722	750	732	715	775
85°	85	93	110	129	137	125
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6374.0	6374.0	6374.0	6374.0	6374.0
2.5°	6389.4	6365.3	6374.0	6348.7	6345.8
5°	6361.0	6335.3	6339.6	6307.2	6316.3
7.5°	6311.7	6283.7	6279.4	6243.2	6251.2
10°	6244.9	6211.2	6198.2	6156.0	6161.7
12.5°	6156.1	6120.3	6096.6	6047.7	6056.9
15°	6051.5	6011.2	5974.2	5924.4	5932.2
17.5°	5930.4	5885.0	5839.9	5782.6	5796.3
20°	5791.5	5741.6	5687.9	5627.4	5644.8
22.5°	5635.8	5582.2	5521.7	5465.7	5482.4
25°	5464.3	5408.8	5347.4	5295.1	5312.5
27.5°	5284.0	5222.0	5158.6	5117.6	5137.1
30°	5088.8	5023.8	4961.0	4930.9	4959.6
32.5°	4882.6	4817.3	4759.0	4747.1	4780.6
35°	4670.7	4601.6	4550.1	4557.3	4596.6
37.5°	4443.0	4382.7	4340.0	4366.2	4405.9
40°	4217.0	4154.4	4125.4	4164.0	4206.2
42.5°	3983.2	3926.2	3908.1	3961.5	4000.2
45°	3741.4	3687.1	3685.9	3746.4	3788.9
47.5°	3503.0	3448.3	3460.2	3527.7	3574.2
50°	3250.8	3203.7	3226.5	3303.8	3345.4
52.5°	2998.9	2953.9	2990.4	3072.8	3113.7
55°	2749.3	2707.2	2751.3	2832.0	2861.6
57.5°	2490.6	2461.6	2509.2	2581.1	2612.7
60°	2233.2	2207.1	2257.0	2325.7	2355.2
62.5°	1975.2	1955.6	2005.0	2063.0	2074.8
65°	1716.0	1700.3	1748.5	1783.6	1791.6
67.5°	1453.5	1446.2	1492.9	1515.4	1516.9
70°	1197.5	1188.0	1235.2	1246.5	1236.1
72.5°	948.7	947.9	982.5	982.9	964.5
75°	721.0	721.9	750.4	731.8	714.9
77.5°	509.6	511.9	529.7	508.1	498.9
80°	326.9	336.5	338.6	331.8	325.3
82.5°	183.3	194.8	196.3	214.8	222.9
85°	84.9	92.9	110.2	128.8	136.7
87.5°	28.8	35.4	45.5	48.9	45.9
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	18.40	19.98	18.76	20.30	20.61	18.73	20.31	19.10	20.63	20.94
	3H	19.85	21.28	20.23	21.60	21.96	20.17	21.60	20.55	21.92	22.28
	4H	20.27	21.61	20.67	21.96	22.33	20.56	21.90	20.96	22.24	22.62
	6H	20.48	21.71	20.89	22.08	22.47	20.74	21.97	21.15	22.34	22.73
	8H	20.50	21.68	20.93	22.07	22.47	20.77	21.95	21.20	22.34	22.74
	12H	20.50	21.63	20.93	22.01	22.44	20.79	21.92	21.22	22.30	22.73
4H	2H	18.98	20.31	19.37	20.66	21.04	19.24	20.58	19.64	20.93	21.31
	3H	20.60	21.71	21.01	22.11	22.51	20.87	21.98	21.28	22.38	22.78
	4H	21.11	22.11	21.54	22.53	22.96	21.35	22.35	21.78	22.76	23.20
	6H	21.39	22.26	21.84	22.70	23.16	21.60	22.47	22.05	22.91	23.37
	8H	21.43	22.24	21.89	22.69	23.15	21.65	22.46	22.11	22.91	23.37
	12H	21.44	22.17	21.92	22.65	23.12	21.69	22.42	22.17	22.90	23.37
8H	4H	21.30	22.11	21.76	22.55	23.02	21.51	22.33	21.98	22.77	23.24
	6H	21.63	22.30	22.13	22.79	23.27	21.82	22.49	22.31	22.98	23.45
	8H	21.70	22.30	22.21	22.81	23.29	21.90	22.50	22.41	23.01	23.50
	12H	21.73	22.26	22.24	22.75	23.32	21.98	22.50	22.48	23.00	23.56
12H	4H	21.30	22.02	21.78	22.50	22.97	21.51	22.24	21.99	22.71	23.18
	6H	21.63	22.23	22.14	22.74	23.22	21.81	22.41	22.32	22.92	23.41
	8H	21.73	22.26	22.24	22.75	23.31	21.93	22.46	22.44	22.95	23.51