

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: P1499695

Luminaire Tested: MAE-G-4-120-3STD-HI-40-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499695
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-40-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

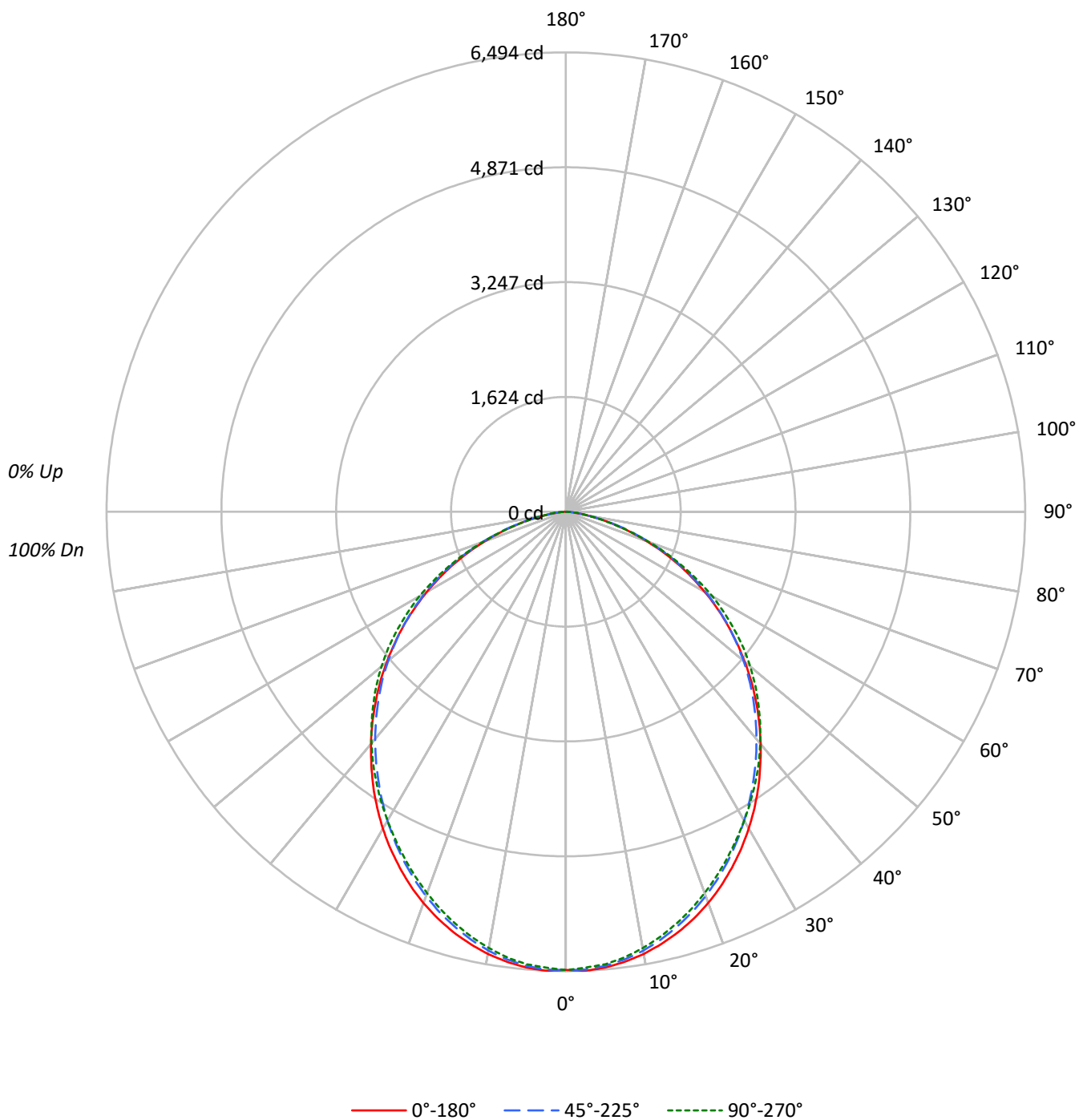
Lumens per Lamp: N/A
Luminaire Lumens: 15879.0 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	8717	8717	8717
5°	8732	8703	8671
10°	8672	8607	8556
15°	8567	8458	8399
20°	8428	8278	8215
25°	8245	8069	8016
30°	8036	7834	7832
35°	7797	7596	7674
40°	7528	7365	7509
45°	7236	7129	7328
50°	6916	6864	7118
55°	6555	6560	6823
60°	6108	6173	6442
65°	5553	5658	5798
70°	4788	4939	4942
75°	3810	3965	3777
80°	2573	2667	2562
85°	1334	1729	2144

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7328 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.7	3.8
10°-20°	1710.8	10.8
20°-30°	2508.2	15.8
30°-40°	2915.2	18.4
40°-50°	2917.0	18.4
50°-60°	2517.9	15.9
60°-70°	1756.2	11.1
70°-80°	799.9	5.0
80°-90°	144.1	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°	4828.6	30.4
0°-40°	7743.9	48.8
0°-60°	13178.7	83.0
0°-90°	15879.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15879.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6478	6478	6478	6478	6478	
5°	6465	6439	6444	6410	6420	613
15°	6151	6110	6072	6021	6029	1733
25°	5554	5497	5435	5382	5400	2557
35°	4747	4677	4625	4632	4672	2966
45°	3803	3748	3746	3808	3851	2934
55°	2794	2752	2796	2878	2908	2494
65°	1744	1728	1777	1813	1821	1724
75°	733	734	763	744	727	787
85°	86	94	112	131	139	127
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6478.5	6478.5	6478.5	6478.5	6478.5
2.5°	6494.0	6469.5	6478.5	6452.7	6449.7
5°	6465.2	6439.0	6443.5	6410.5	6419.8
7.5°	6415.2	6386.6	6382.3	6345.5	6353.6
10°	6347.2	6313.0	6299.8	6256.8	6262.6
12.5°	6257.0	6220.5	6196.4	6146.8	6156.2
15°	6150.6	6109.6	6072.1	6021.4	6029.4
17.5°	6027.5	5981.4	5935.6	5877.4	5891.2
20°	5886.4	5835.6	5781.1	5719.7	5737.3
22.5°	5728.1	5673.6	5612.2	5555.2	5572.2
25°	5553.9	5497.3	5435.0	5381.9	5399.6
27.5°	5370.5	5307.5	5243.1	5201.5	5221.4
30°	5172.1	5106.2	5042.3	5011.8	5040.8
32.5°	4962.7	4896.3	4837.0	4824.9	4858.9
35°	4747.2	4677.0	4624.7	4632.0	4671.9
37.5°	4515.8	4454.5	4411.1	4437.8	4478.1
40°	4286.1	4222.4	4193.0	4232.4	4275.2
42.5°	4048.4	3990.5	3972.2	4026.3	4065.9
45°	3802.6	3747.5	3746.4	3807.8	3851.0
47.5°	3560.4	3504.8	3516.9	3585.5	3632.8
50°	3304.1	3256.1	3279.3	3357.9	3400.3
52.5°	3048.0	3002.3	3039.4	3123.2	3164.8
55°	2794.3	2751.5	2796.4	2878.4	2908.5
57.5°	2531.4	2502.0	2550.4	2623.3	2655.6
60°	2269.8	2243.2	2294.0	2363.8	2393.9
62.5°	2007.5	1987.5	2037.9	2096.8	2108.8
65°	1744.1	1728.1	1777.2	1812.9	1821.0
67.5°	1477.2	1469.9	1517.4	1540.2	1541.6
70°	1217.1	1207.5	1255.5	1266.9	1256.3
72.5°	964.2	963.4	998.5	999.0	980.3
75°	732.9	733.6	762.7	743.8	726.6
77.5°	517.9	520.3	538.3	516.5	507.0
80°	332.1	342.0	344.2	337.1	330.6
82.5°	186.3	198.0	199.5	218.4	226.5
85°	86.4	94.4	112.0	130.9	138.9
87.5°	29.3	36.1	46.2	49.7	46.6
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	18.45	20.04	18.82	20.35	20.67	18.79	20.37	19.15	20.69	21.00
	3H	19.91	21.33	20.28	21.66	22.02	20.23	21.65	20.60	21.98	22.34
	4H	20.33	21.67	20.73	22.01	22.39	20.62	21.95	21.01	22.30	22.68
	6H	20.53	21.77	20.94	22.13	22.53	20.79	22.03	21.20	22.39	22.79
	8H	20.56	21.74	20.98	22.13	22.53	20.83	22.01	21.25	22.39	22.79
	12H	20.56	21.69	20.99	22.07	22.50	20.85	21.97	21.28	22.36	22.78
4H	2H	19.03	20.37	19.43	20.72	21.09	19.30	20.64	19.70	20.99	21.36
	3H	20.66	21.77	21.07	22.17	22.57	20.93	22.04	21.34	22.44	22.84
	4H	21.17	22.17	21.60	22.58	23.02	21.40	22.41	21.84	22.82	23.26
	6H	21.45	22.32	21.90	22.76	23.22	21.65	22.53	22.11	22.97	23.42
	8H	21.49	22.30	21.95	22.74	23.21	21.71	22.52	22.17	22.96	23.43
	12H	21.50	22.23	21.98	22.70	23.17	21.75	22.47	22.23	22.95	23.42
8H	4H	21.35	22.17	21.82	22.61	23.08	21.57	22.38	22.03	22.83	23.29
	6H	21.69	22.36	22.18	22.85	23.32	21.87	22.54	22.37	23.03	23.51
	8H	21.75	22.35	22.27	22.86	23.35	21.96	22.56	22.47	23.07	23.55
	12H	21.79	22.32	22.30	22.81	23.37	22.03	22.56	22.54	23.05	23.62
12H	4H	21.35	22.08	21.83	22.56	23.03	21.57	22.29	22.05	22.77	23.24
	6H	21.68	22.29	22.20	22.79	23.28	21.87	22.47	22.38	22.98	23.46
	8H	21.78	22.31	22.29	22.81	23.37	21.99	22.52	22.49	23.01	23.57