

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: P1499251

Luminaire Tested: MAE-G-4-120-2HI-STD-30-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2HI-STD-30-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

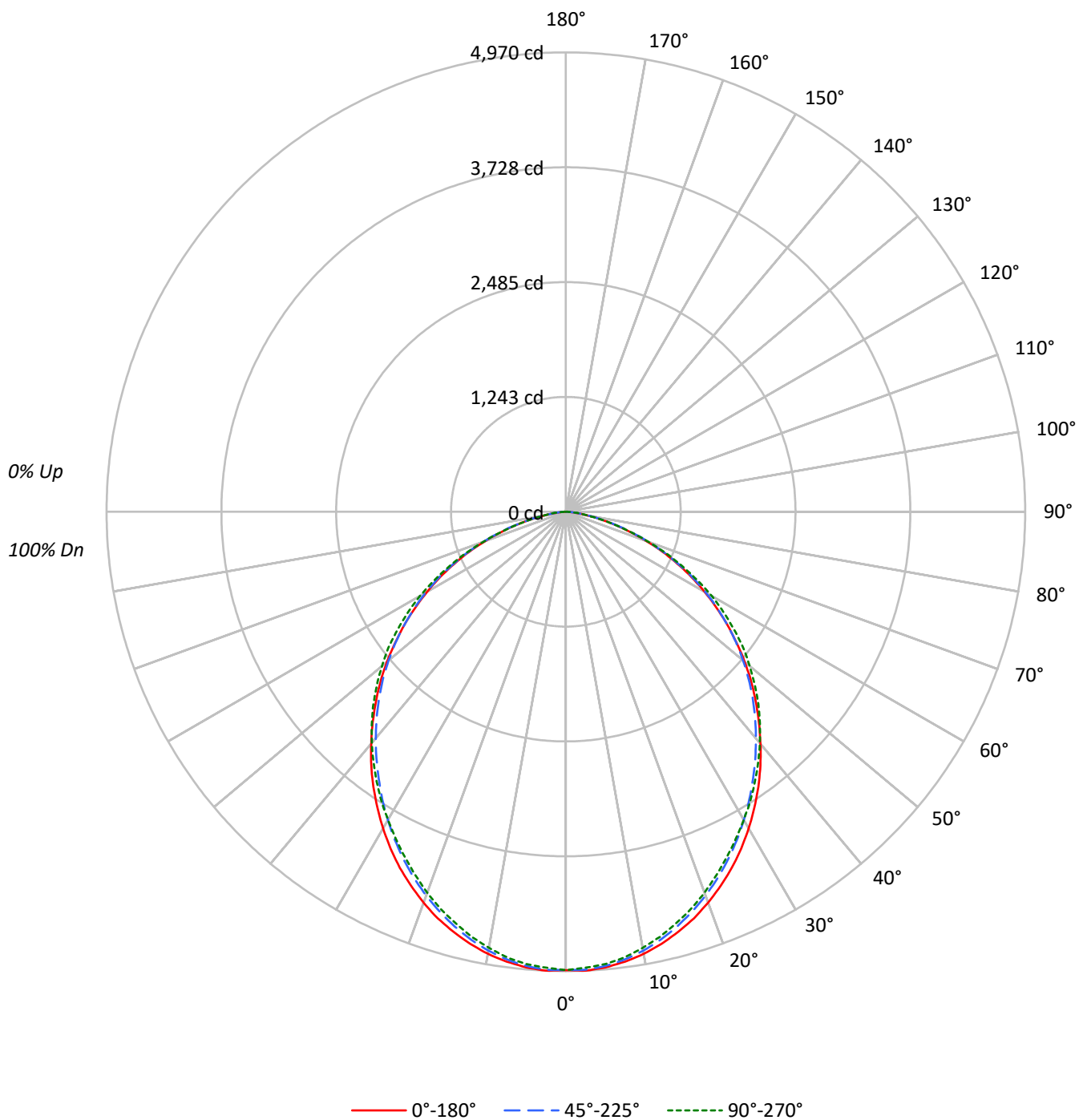
Lumens per Lamp: N/A
Luminaire Lumens: 12124.0 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 157.1
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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86		
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6672	6672	6672
5°	6682	6662	6635
10°	6635	6588	6545
15°	6553	6471	6421
20°	6445	6326	6279
25°	6308	6163	6120
30°	6146	5984	5979
35°	5964	5797	5858
40°	5755	5620	5734
45°	5531	5439	5604
50°	5287	5241	5434
55°	5006	5003	5212
60°	4668	4706	4903
65°	4240	4301	4412
70°	3657	3733	3750
75°	2909	2986	2890
80°	1961	2014	1952
85°	997	1297	1626

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5604 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.6	3.8
10°-20°	1308.7	10.8
20°-30°	1917.3	15.8
30°-40°	2227.9	18.4
40°-50°	2228.1	18.4
50°-60°	1921.8	15.9
60°-70°	1337.2	11.0
70°-80°	607.3	5.0
80°-90°	109.0	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°	3692.6	30.5
0°-40°	5920.5	48.8
0°-60°	10070.5	83.1
0°-90°	12124.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12124.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4959	4959	4959	4959	4959	
5°	4948	4928	4932	4907	4912	469
15°	4704	4673	4646	4605	4609	1326
25°	4249	4206	4151	4114	4122	1956
35°	3631	3578	3529	3539	3566	2269
45°	2907	2863	2858	2910	2945	2242
55°	2134	2102	2133	2196	2222	1906
65°	1332	1321	1351	1372	1386	1318
75°	560	558	574	561	556	602
85°	65	71	84	99	105	96
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4959.0	4959.0	4959.0	4959.0	4959.0
2.5°	4969.6	4951.5	4959.0	4939.6	4936.7
5°	4947.6	4928.5	4932.5	4906.6	4912.5
7.5°	4909.5	4888.0	4885.8	4857.2	4863.1
10°	4856.4	4830.8	4821.7	4787.1	4790.4
12.5°	4788.6	4760.3	4742.8	4703.4	4709.5
15°	4704.1	4673.0	4645.5	4605.3	4609.4
17.5°	4611.2	4578.5	4537.9	4495.9	4505.3
20°	4501.0	4466.0	4418.3	4374.3	4385.0
22.5°	4379.1	4339.8	4291.0	4247.9	4255.2
25°	4249.1	4206.5	4151.3	4113.6	4122.2
27.5°	4107.7	4060.4	4005.4	3972.9	3985.9
30°	3955.8	3906.7	3851.8	3830.8	3848.4
32.5°	3795.9	3746.4	3693.8	3688.7	3713.7
35°	3630.7	3578.0	3529.0	3538.9	3566.5
37.5°	3458.8	3407.3	3365.9	3390.3	3419.2
40°	3276.5	3229.3	3199.9	3234.1	3264.7
42.5°	3093.4	3048.8	3031.2	3075.6	3108.8
45°	2906.7	2862.6	2858.4	2909.5	2944.9
47.5°	2721.6	2676.5	2684.1	2741.2	2772.9
50°	2525.7	2487.1	2503.7	2564.1	2595.9
52.5°	2329.1	2293.6	2320.1	2384.0	2421.2
55°	2133.9	2102.1	2132.9	2195.5	2221.8
57.5°	1933.8	1910.4	1944.4	1999.1	2024.4
60°	1734.6	1713.5	1748.7	1798.6	1822.1
62.5°	1533.3	1516.0	1551.9	1591.2	1604.7
65°	1331.9	1321.4	1351.1	1372.2	1385.8
67.5°	1134.5	1123.8	1152.0	1169.7	1173.1
70°	929.5	925.7	949.0	956.2	953.3
72.5°	741.8	736.3	754.8	752.2	745.5
75°	559.6	557.9	574.4	561.1	556.0
77.5°	394.0	399.7	403.7	392.0	387.9
80°	253.1	262.4	259.9	255.8	251.9
82.5°	141.6	148.6	150.3	165.3	171.3
85°	64.6	71.0	84.0	99.1	105.3
87.5°	21.9	27.2	35.1	37.5	35.4
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	17.52	19.10	17.88	19.42	19.73	17.84	19.42	18.20	19.73	20.05
	3H	18.98	20.40	19.36	20.73	21.09	19.27	20.69	19.64	21.02	21.38
	4H	19.40	20.74	19.80	21.09	21.46	19.65	20.99	20.05	21.34	21.72
	6H	19.60	20.84	20.02	21.20	21.60	19.83	21.07	20.24	21.43	21.82
	8H	19.63	20.81	20.05	21.20	21.60	19.87	21.04	20.29	21.43	21.83
	12H	19.63	20.75	20.06	21.14	21.56	19.88	21.01	20.31	21.39	21.82
4H	2H	18.09	19.43	18.49	19.78	20.15	18.35	19.68	18.75	20.03	20.41
	3H	19.72	20.84	20.13	21.23	21.63	19.96	21.07	20.37	21.47	21.87
	4H	20.23	21.23	20.66	21.65	22.08	20.43	21.43	20.87	21.85	22.29
	6H	20.51	21.38	20.97	21.82	22.28	20.69	21.56	21.14	22.00	22.45
	8H	20.55	21.36	21.01	21.81	22.27	20.74	21.55	21.20	21.99	22.46
	12H	20.56	21.29	21.04	21.77	22.24	20.78	21.50	21.26	21.98	22.45
8H	4H	20.41	21.22	20.87	21.67	22.13	20.60	21.41	21.06	21.85	22.32
	6H	20.75	21.42	21.24	21.91	22.38	20.90	21.57	21.40	22.06	22.54
	8H	20.81	21.41	21.32	21.92	22.41	20.98	21.58	21.50	22.09	22.58
	12H	20.84	21.37	21.35	21.87	22.43	21.06	21.59	21.57	22.08	22.64
12H	4H	20.41	21.14	20.89	21.61	22.08	20.59	21.32	21.08	21.80	22.27
	6H	20.74	21.34	21.25	21.85	22.34	20.90	21.50	21.41	22.00	22.49
	8H	20.84	21.37	21.35	21.86	22.42	21.01	21.54	21.52	22.03	22.60