

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: P1499458

Luminaire Tested: MAE-G-4-120-2STD-STD-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499458
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-4-120-2STD-STD-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

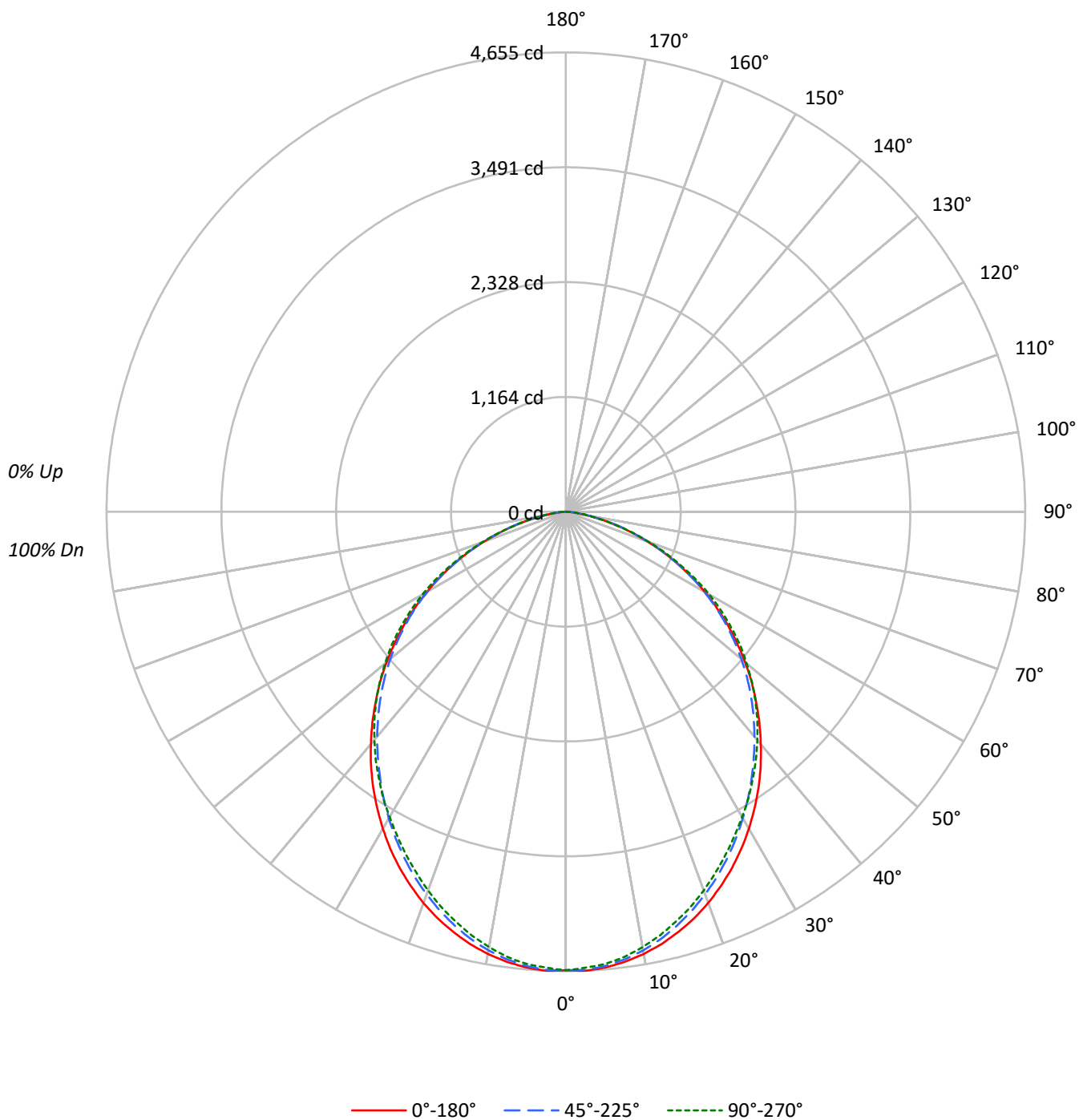
Lumens per Lamp: N/A
Luminaire Lumens: 11308.0 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.8
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6251	6251	6251
5°	6260	6240	6212
10°	6216	6166	6119
15°	6140	6050	5991
20°	6040	5907	5848
25°	5913	5747	5690
30°	5762	5574	5549
35°	5592	5394	5426
40°	5398	5224	5302
45°	5190	5049	5172
50°	4962	4861	5007
55°	4700	4637	4800
60°	4384	4359	4525
65°	3987	3988	4102
70°	3443	3482	3532
75°	2743	2822	2789
80°	1857	1960	1966
85°	956	1311	1672

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5190 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.9	3.9
10°-20°	1223.5	10.8
20°-30°	1789.0	15.8
30°-40°	2074.9	18.3
40°-50°	2071.3	18.3
50°-60°	1784.2	15.8
60°-70°	1245.1	11.0
70°-80°	575.2	5.1
80°-90°	107.9	1.0
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°	3449.5	30.5
0°-40°	5524.4	48.9
0°-60°	9379.9	82.9
0°-90°	11308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11308.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4646	4646	4646	4646	4646	
5°	4635	4618	4620	4593	4599	440
15°	4408	4377	4343	4298	4301	1242
25°	3983	3937	3871	3827	3832	1833
35°	3405	3346	3284	3282	3304	2128
45°	2727	2676	2654	2690	2718	2104
55°	2003	1964	1977	2025	2046	1789
65°	1252	1233	1253	1275	1288	1239
75°	528	522	543	538	536	568
85°	62	69	85	101	108	92
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4645.7	4645.7	4645.7	4645.7	4645.7
2.5°	4655.2	4640.0	4645.7	4625.4	4624.1
5°	4634.8	4618.0	4619.8	4593.1	4599.1
7.5°	4599.2	4579.7	4574.6	4544.4	4550.0
10°	4549.7	4525.8	4512.8	4475.8	4478.7
12.5°	4486.4	4459.3	4436.6	4393.9	4398.8
15°	4407.6	4377.1	4343.2	4298.3	4301.1
17.5°	4320.8	4287.7	4239.9	4192.3	4200.0
20°	4218.0	4181.6	4125.4	4075.9	4084.0
22.5°	4104.3	4062.9	4004.2	3955.2	3959.6
25°	3982.6	3937.1	3871.4	3826.9	3832.5
27.5°	3850.6	3799.9	3733.0	3693.1	3702.5
30°	3708.7	3655.4	3587.8	3558.2	3571.4
32.5°	3559.3	3504.7	3439.0	3423.5	3443.0
35°	3404.7	3346.5	3283.8	3282.0	3303.6
37.5°	3243.8	3186.6	3130.2	3141.6	3164.2
40°	3073.4	3019.7	2974.0	2994.4	3018.8
42.5°	2902.1	2850.4	2815.8	2845.6	2871.9
45°	2727.3	2675.9	2653.7	2689.9	2718.0
47.5°	2553.5	2501.8	2490.8	2532.6	2557.8
50°	2370.5	2324.3	2322.2	2367.4	2392.0
52.5°	2185.8	2143.1	2151.0	2199.6	2229.8
55°	2003.4	1963.7	1976.8	2025.0	2046.4
57.5°	1816.0	1784.5	1801.4	1844.5	1865.5
60°	1629.3	1600.3	1619.7	1660.9	1681.6
62.5°	1440.6	1415.4	1437.7	1472.3	1485.8
65°	1252.2	1233.3	1252.6	1274.9	1288.3
67.5°	1066.7	1049.0	1070.0	1091.4	1096.3
70°	875.1	863.9	885.2	897.9	897.7
72.5°	698.7	687.7	708.0	712.7	709.2
75°	527.6	521.9	542.8	538.3	536.4
77.5°	372.3	375.0	386.0	382.6	381.8
80°	239.7	248.2	253.0	255.4	253.7
82.5°	134.8	142.5	149.8	167.5	174.5
85°	61.9	69.4	84.9	101.4	108.3
87.5°	20.9	26.9	35.7	38.4	36.3
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	17.29	18.88	17.66	19.19	19.51	17.52	19.10	17.88	19.42	19.73
	3H	18.76	20.18	19.14	20.51	20.87	18.99	20.41	19.36	20.74	21.10
	4H	19.18	20.52	19.58	20.87	21.25	19.40	20.74	19.80	21.09	21.46
	6H	19.39	20.63	19.80	20.99	21.38	19.61	20.84	20.02	21.21	21.60
	8H	19.42	20.60	19.84	20.99	21.39	19.65	20.83	20.08	21.22	21.62
	12H	19.42	20.55	19.85	20.93	21.36	19.68	20.81	20.11	21.19	21.62
4H	2H	17.85	19.19	18.25	19.54	19.92	18.03	19.37	18.43	19.72	20.10
	3H	19.49	20.61	19.90	21.01	21.41	19.69	20.80	20.10	21.20	21.60
	4H	20.00	21.01	20.44	21.42	21.86	20.19	21.20	20.63	21.61	22.05
	6H	20.29	21.16	20.75	21.60	22.06	20.48	21.35	20.94	21.79	22.25
	8H	20.33	21.15	20.80	21.59	22.06	20.55	21.36	21.01	21.81	22.27
	12H	20.35	21.07	20.83	21.55	22.02	20.60	21.33	21.08	21.81	22.28
8H	4H	20.19	21.01	20.65	21.45	21.92	20.37	21.18	20.83	21.62	22.09
	6H	20.53	21.21	21.03	21.70	22.17	20.71	21.38	21.21	21.87	22.35
	8H	20.60	21.21	21.12	21.71	22.20	20.81	21.41	21.33	21.92	22.41
	12H	20.64	21.17	21.15	21.66	22.23	20.90	21.44	21.41	21.93	22.49
12H	4H	20.19	20.92	20.67	21.40	21.87	20.36	21.09	20.84	21.57	22.04
	6H	20.53	21.14	21.05	21.65	22.13	20.71	21.31	21.22	21.82	22.31
	8H	20.64	21.17	21.15	21.66	22.22	20.85	21.38	21.36	21.87	22.43