

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: P1499728

Luminaire Tested: MAE-G-4-120-3STD-STD-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499728
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-STD-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

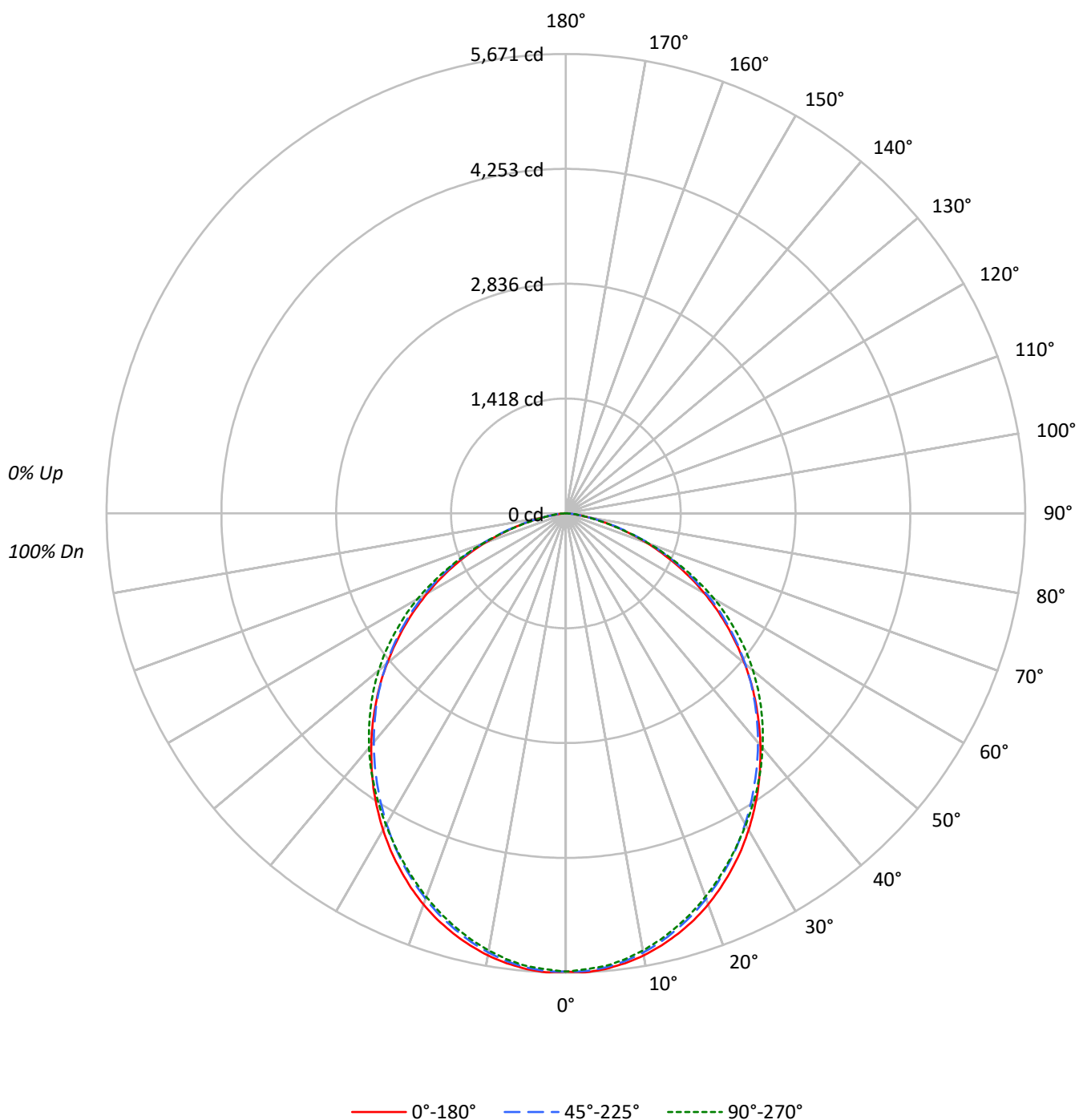
Lumens per Lamp: N/A
Luminaire Lumens: 13925.0 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 170.9
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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7611	7611	7611
5°	7625	7601	7576
10°	7572	7522	7486
15°	7480	7400	7361
20°	7358	7251	7213
25°	7196	7076	7051
30°	7012	6878	6900
35°	6802	6676	6773
40°	6566	6480	6638
45°	6309	6279	6488
50°	6029	6051	6312
55°	5713	5787	6053
60°	5321	5449	5706
65°	4833	4991	5101
70°	4162	4334	4297
75°	3306	3437	3205
80°	2225	2246	2079
85°	1142	1403	1703

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6488 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.6	3.8
10°-20°	1496.8	10.7
20°-30°	2198.4	15.8
30°-40°	2559.9	18.4
40°-50°	2565.9	18.4
50°-60°	2217.7	15.9
60°-70°	1542.8	11.1
70°-80°	691.7	5.0
80°-90°	119.3	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°	4227.8	30.4
0°-40°	6787.7	48.7
0°-60°	11571.2	83.1
0°-90°	13925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5657	5657	5657	5657	5657	
5°	5646	5621	5627	5602	5609	536
15°	5370	5336	5312	5276	5285	1513
25°	4847	4804	4767	4731	4749	2232
35°	4141	4090	4065	4084	4123	2587
45°	3316	3279	3300	3366	3410	2558
55°	2435	2409	2467	2551	2580	2174
65°	1518	1514	1568	1596	1602	1500
75°	636	642	661	636	616	683
85°	74	79	91	105	110	110
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5656.7	5656.7	5656.7	5656.7	5656.7
2.5°	5671.0	5647.4	5656.7	5636.6	5632.5
5°	5645.5	5621.3	5627.4	5601.5	5609.0
7.5°	5601.6	5575.9	5575.6	5547.4	5554.4
10°	5542.1	5512.0	5505.6	5473.6	5479.0
12.5°	5463.0	5431.9	5418.0	5381.5	5390.7
15°	5370.0	5335.8	5312.3	5276.5	5284.8
17.5°	5262.1	5224.5	5196.2	5154.6	5168.1
20°	5138.5	5098.0	5064.2	5019.8	5037.7
22.5°	4999.8	4957.3	4918.6	4879.0	4897.0
25°	4847.2	4804.4	4766.6	4730.6	4749.3
27.5°	4686.8	4639.1	4601.1	4575.5	4596.4
30°	4513.1	4463.8	4427.2	4411.7	4441.3
32.5°	4329.7	4281.1	4248.9	4250.4	4284.6
35°	4141.4	4090.2	4064.7	4083.5	4123.4
37.5°	3938.9	3896.1	3879.1	3915.2	3955.8
40°	3738.2	3693.5	3689.3	3736.7	3779.2
42.5°	3530.6	3491.4	3496.7	3557.4	3597.1
45°	3315.8	3279.4	3299.6	3366.4	3409.8
47.5°	3104.7	3067.3	3098.8	3171.9	3218.7
50°	2880.3	2850.0	2890.8	2972.5	3015.5
52.5°	2657.3	2628.2	2680.3	2766.4	2807.8
55°	2435.3	2409.2	2467.0	2550.6	2580.3
57.5°	2205.7	2191.1	2250.8	2324.0	2355.1
60°	1977.2	1964.7	2025.0	2092.6	2120.3
62.5°	1748.4	1741.4	1798.7	1853.2	1862.3
65°	1518.0	1514.3	1567.6	1596.5	1602.1
67.5°	1285.1	1288.0	1336.3	1350.6	1349.8
70°	1057.9	1057.9	1101.7	1104.9	1092.2
72.5°	837.3	843.7	871.6	864.1	843.9
75°	636.0	641.8	661.2	635.5	616.5
77.5°	448.8	453.5	461.7	433.5	421.5
80°	287.1	295.9	289.9	276.4	268.3
82.5°	160.3	169.3	164.1	176.2	181.8
85°	74.0	79.2	90.9	104.6	110.3
87.5°	25.2	29.9	37.2	39.8	37.1
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	17.98	19.57	18.35	19.88	20.20	18.40	19.99	18.77	20.30	20.61
	3H	19.43	20.85	19.81	21.18	21.54	19.81	21.23	20.19	21.56	21.92
	4H	19.85	21.18	20.25	21.53	21.91	20.17	21.51	20.57	21.86	22.23
	6H	20.05	21.28	20.46	21.65	22.04	20.32	21.56	20.73	21.92	22.32
	8H	20.07	21.25	20.50	21.64	22.04	20.35	21.53	20.77	21.92	22.31
	12H	20.07	21.20	20.50	21.58	22.01	20.36	21.49	20.79	21.87	22.30
4H	2H	18.57	19.91	18.97	20.26	20.63	18.91	20.25	19.31	20.60	20.97
	3H	20.19	21.30	20.60	21.70	22.10	20.50	21.61	20.91	22.01	22.41
	4H	20.69	21.69	21.13	22.11	22.55	20.95	21.95	21.38	22.36	22.80
	6H	20.97	21.84	21.42	22.28	22.74	21.17	22.04	21.62	22.48	22.94
	8H	21.01	21.82	21.47	22.26	22.73	21.21	22.02	21.67	22.46	22.93
	12H	21.02	21.74	21.50	22.22	22.69	21.24	21.96	21.72	22.44	22.91
8H	4H	20.88	21.69	21.34	22.13	22.60	21.11	21.92	21.57	22.36	22.83
	6H	21.20	21.87	21.70	22.36	22.84	21.37	22.04	21.87	22.53	23.01
	8H	21.27	21.86	21.78	22.37	22.86	21.44	22.04	21.95	22.55	23.03
	12H	21.30	21.83	21.81	22.32	22.88	21.50	22.03	22.01	22.52	23.08
12H	4H	20.87	21.60	21.35	22.07	22.55	21.10	21.83	21.59	22.31	22.78
	6H	21.19	21.79	21.71	22.30	22.79	21.37	21.97	21.88	22.47	22.96
	8H	21.29	21.82	21.80	22.31	22.87	21.46	21.99	21.97	22.48	23.05