

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: P1499722

Luminaire Tested: MAE-G-4-120-3STD-LO-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499722
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-LO-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

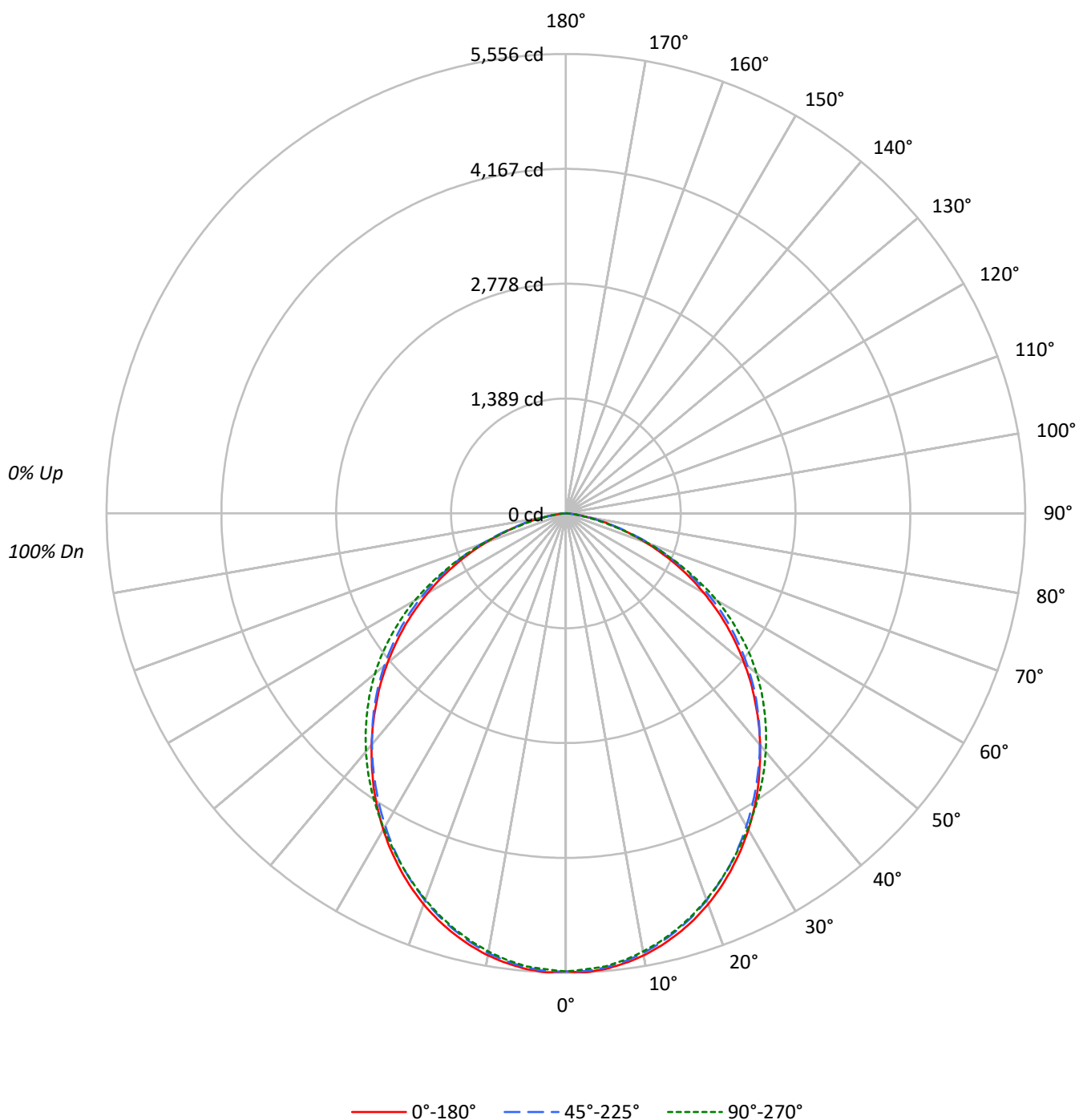
Lumens per Lamp: N/A
Luminaire Lumens: 13717.0 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 150.6
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	93	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	62
4	84	73	64	58	82	71	63	57	69	62	57	67	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	43	43	43	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	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7456	7456	7456
5°	7470	7448	7427
10°	7417	7377	7351
15°	7326	7267	7247
20°	7205	7133	7117
25°	7045	6971	6972
30°	6863	6786	6838
35°	6656	6595	6727
40°	6422	6410	6606
45°	6169	6219	6470
50°	5893	6000	6307
55°	5583	5744	6051
60°	5196	5413	5692
65°	4714	4953	5045
70°	4053	4273	4185
75°	3213	3336	3020
80°	2150	2096	1835
85°	1090	1237	1450

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6470 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.0	3.8
10°-20°	1470.0	10.7
20°-30°	2164.2	15.8
30°-40°	2525.9	18.4
40°-50°	2537.5	18.5
50°-60°	2196.7	16.0
60°-70°	1523.0	11.1
70°-80°	669.0	4.9
80°-90°	108.6	0.8
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°	4156.2	30.3
0°-40°	6682.1	48.7
0°-60°	11416.3	83.2
0°-90°	13717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13717.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5541	5541	5541	5541	5541	
5°	5530	5505	5514	5492	5499	525
15°	5260	5228	5217	5193	5202	1482
25°	4746	4712	4696	4674	4696	2185
35°	4052	4015	4015	4050	4095	2532
45°	3242	3222	3268	3351	3400	2502
55°	2380	2368	2449	2546	2580	2124
65°	1481	1490	1556	1581	1585	1464
75°	618	630	642	605	581	664
85°	71	74	80	90	94	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5541.2	5541.2	5541.2	5541.2	5541.2
2.5°	5555.9	5530.1	5541.2	5524.5	5518.6
5°	5530.5	5505.0	5514.1	5492.2	5499.0
7.5°	5487.4	5461.3	5465.4	5442.8	5449.4
10°	5428.9	5399.1	5399.4	5374.9	5380.6
12.5°	5350.9	5321.4	5317.0	5289.9	5300.0
15°	5259.6	5228.0	5217.0	5192.7	5202.4
17.5°	5153.7	5120.1	5107.4	5078.1	5093.3
20°	5031.8	4997.1	4981.6	4950.0	4970.5
22.5°	4895.6	4860.4	4841.5	4815.7	4837.2
25°	4745.5	4711.8	4695.8	4673.8	4696.4
27.5°	4587.8	4550.3	4536.2	4525.1	4549.9
30°	4417.1	4379.4	4367.8	4366.9	4401.4
32.5°	4236.8	4201.1	4194.4	4211.1	4250.4
35°	4052.1	4014.8	4015.4	4049.8	4095.2
37.5°	3853.2	3824.7	3834.9	3886.6	3933.0
40°	3656.5	3626.6	3649.5	3712.7	3761.2
42.5°	3453.1	3428.9	3461.2	3537.8	3583.5
45°	3242.2	3221.5	3268.4	3350.6	3400.3
47.5°	3036.0	3013.6	3071.1	3159.4	3212.3
50°	2815.3	2800.5	2866.6	2963.2	3012.9
52.5°	2597.8	2583.2	2659.2	2760.1	2807.0
55°	2379.8	2368.4	2448.8	2546.0	2579.6
57.5°	2154.7	2154.5	2235.1	2319.0	2353.1
60°	1930.8	1932.3	2011.4	2086.2	2115.3
62.5°	1706.8	1713.6	1786.4	1843.7	1850.9
65°	1480.7	1490.2	1555.8	1581.1	1584.6
67.5°	1252.6	1267.3	1323.4	1330.3	1326.8
70°	1030.3	1040.9	1086.2	1080.7	1063.9
72.5°	814.3	829.7	853.5	835.9	811.3
75°	618.1	630.3	641.8	604.9	581.0
77.5°	435.2	443.4	441.5	402.5	385.9
80°	277.5	286.4	270.5	247.9	236.8
82.5°	154.0	161.4	147.8	154.3	157.7
85°	70.6	73.6	80.1	90.1	93.9
87.5°	24.1	27.5	32.4	34.2	31.6
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	17.91	19.49	18.27	19.81	20.12	18.44	20.03	18.81	20.34	20.65
	3H	19.35	20.77	19.73	21.10	21.46	19.81	21.23	20.18	21.56	21.92
	4H	19.76	21.10	20.16	21.45	21.82	20.14	21.47	20.54	21.82	22.20
	6H	19.96	21.19	20.37	21.56	21.95	20.26	21.49	20.67	21.86	22.25
	8H	19.98	21.16	20.41	21.55	21.95	20.27	21.45	20.70	21.84	22.24
	12H	19.98	21.10	20.41	21.49	21.91	20.27	21.40	20.70	21.78	22.21
4H	2H	18.51	19.85	18.91	20.20	20.58	18.94	20.28	19.34	20.63	21.00
	3H	20.12	21.23	20.53	21.63	22.03	20.49	21.60	20.90	22.00	22.40
	4H	20.62	21.62	21.05	22.04	22.47	20.90	21.90	21.33	22.31	22.75
	6H	20.89	21.76	21.35	22.20	22.66	21.08	21.95	21.54	22.39	22.85
	8H	20.93	21.74	21.39	22.18	22.65	21.10	21.91	21.57	22.36	22.82
	12H	20.93	21.66	21.42	22.14	22.61	21.12	21.84	21.60	22.32	22.79
8H	4H	20.80	21.61	21.26	22.05	22.52	21.05	21.86	21.51	22.30	22.77
	6H	21.11	21.78	21.61	22.27	22.75	21.27	21.94	21.76	22.43	22.90
	8H	21.17	21.77	21.68	22.28	22.77	21.31	21.91	21.83	22.42	22.91
	12H	21.20	21.73	21.71	22.22	22.78	21.35	21.88	21.86	22.37	22.94
12H	4H	20.79	21.51	21.27	21.99	22.46	21.04	21.77	21.53	22.25	22.72
	6H	21.10	21.70	21.61	22.21	22.70	21.26	21.86	21.77	22.37	22.85
	8H	21.19	21.72	21.70	22.21	22.77	21.33	21.86	21.84	22.35	22.92