

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: P1499710

Luminaire Tested: MAE-G-4-120-3STD-LO-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499710
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-35-90-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

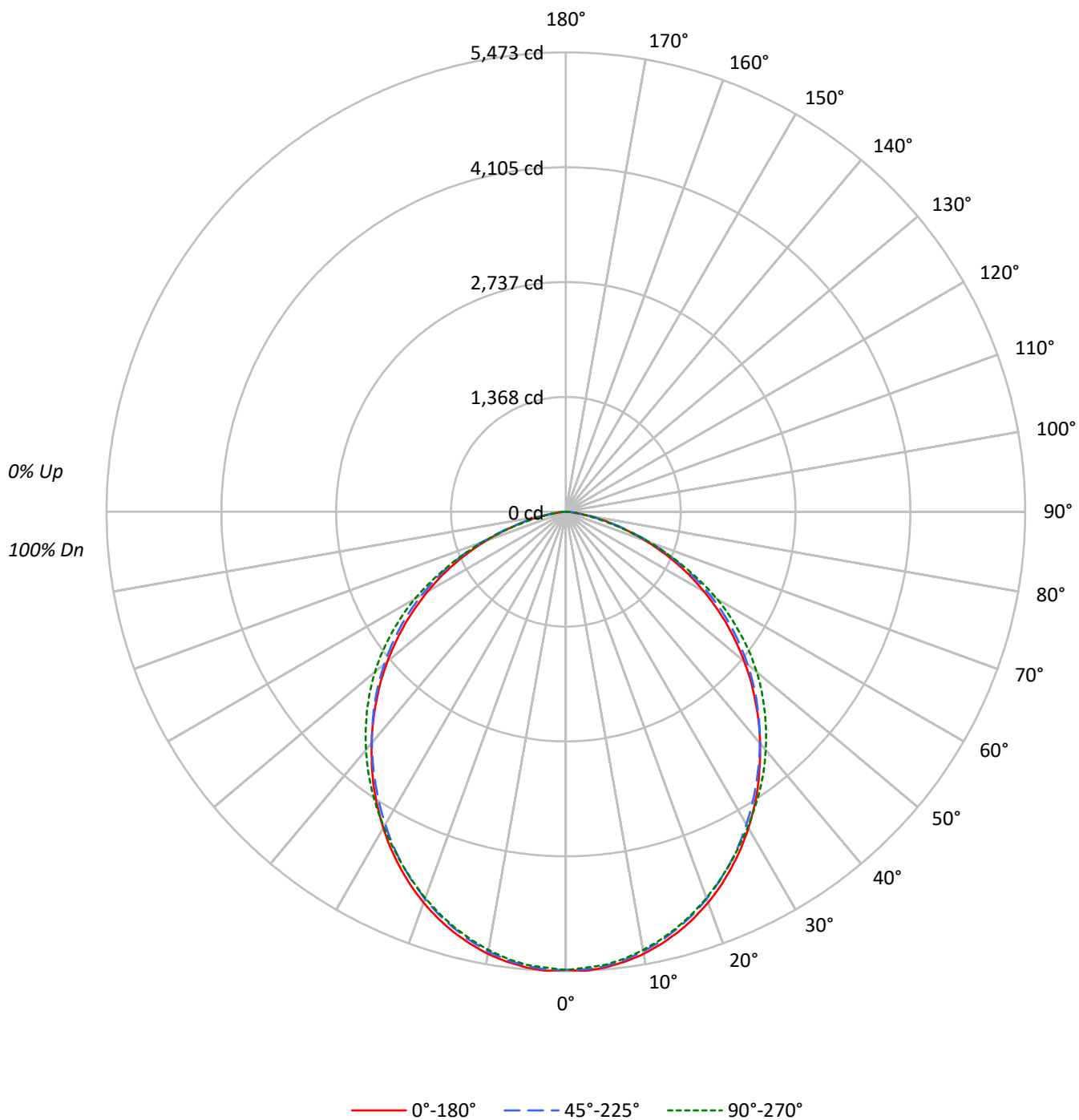
Lumens per Lamp: N/A
Luminaire Lumens: 13513.0 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
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	93	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°	7345	7345	7345
5°	7359	7337	7317
10°	7307	7267	7242
15°	7217	7159	7139
20°	7098	7027	7011
25°	6940	6868	6869
30°	6760	6685	6736
35°	6557	6497	6627
40°	6327	6315	6508
45°	6078	6127	6374
50°	5805	5911	6213
55°	5499	5659	5961
60°	5119	5332	5607
65°	4644	4880	4970
70°	3993	4209	4123
75°	3165	3287	2975
80°	2118	2065	1808
85°	1074	1220	1428

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6374 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.3	3.8
10°-20°	1448.1	10.7
20°-30°	2132.1	15.8
30°-40°	2488.3	18.4
40°-50°	2499.8	18.5
50°-60°	2164.0	16.0
60°-70°	1500.4	11.1
70°-80°	659.0	4.9
80°-90°	107.0	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°	4094.4	30.3
0°-40°	6582.8	48.7
0°-60°	11246.6	83.2
0°-90°	13513.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13513.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5459	5459	5459	5459	5459	
5°	5448	5423	5432	5411	5417	517
15°	5181	5150	5139	5116	5125	1460
25°	4675	4642	4626	4604	4627	2152
35°	3992	3955	3956	3990	4034	2494
45°	3194	3174	3220	3301	3350	2465
55°	2344	2333	2412	2508	2541	2093
65°	1459	1468	1533	1558	1561	1442
75°	609	621	632	596	572	654
85°	70	72	79	89	92	104
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5458.8	5458.8	5458.8	5458.8	5458.8
2.5°	5473.2	5447.9	5458.8	5442.3	5436.4
5°	5448.3	5423.1	5432.0	5410.6	5417.2
7.5°	5405.9	5380.1	5384.1	5361.8	5368.4
10°	5348.1	5318.7	5319.1	5295.0	5300.6
12.5°	5271.4	5242.3	5237.9	5211.3	5221.2
15°	5181.4	5150.3	5139.4	5115.5	5125.0
17.5°	5077.0	5044.0	5031.4	5002.5	5017.4
20°	4957.0	4922.8	4907.5	4876.4	4896.6
22.5°	4822.8	4788.1	4769.5	4744.1	4765.3
25°	4675.0	4641.7	4625.9	4604.3	4626.6
27.5°	4519.5	4482.7	4468.8	4457.8	4482.2
30°	4351.4	4314.4	4302.8	4302.0	4335.9
32.5°	4173.8	4138.6	4132.1	4148.6	4187.2
35°	3991.8	3955.2	3955.7	3989.6	4034.4
37.5°	3796.0	3767.8	3777.8	3828.8	3874.5
40°	3602.1	3572.7	3595.3	3657.5	3705.2
42.5°	3401.8	3377.9	3409.8	3485.3	3530.1
45°	3194.0	3173.6	3219.8	3300.7	3349.8
47.5°	2990.8	2968.8	3025.4	3112.4	3164.6
50°	2773.4	2758.9	2823.9	2919.2	2968.0
52.5°	2559.1	2544.7	2619.6	2719.1	2765.2
55°	2344.4	2333.2	2412.5	2508.1	2541.2
57.5°	2122.6	2122.4	2201.9	2284.5	2318.1
60°	1902.1	1903.6	1981.5	2055.2	2083.8
62.5°	1681.5	1688.1	1759.7	1816.3	1823.4
65°	1458.8	1468.1	1532.7	1557.6	1561.0
67.5°	1234.0	1248.5	1303.7	1310.6	1307.0
70°	1015.0	1025.4	1070.0	1064.6	1048.1
72.5°	802.3	817.3	840.8	823.4	799.3
75°	608.9	620.9	632.3	595.9	572.3
77.5°	428.7	436.8	435.0	396.5	380.1
80°	273.4	282.2	266.5	244.2	233.3
82.5°	151.7	159.0	145.6	152.0	155.4
85°	69.6	72.5	79.0	88.7	92.5
87.5°	23.8	27.1	32.0	33.7	31.1
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	17.86	19.44	18.22	19.76	20.07	18.39	19.97	18.75	20.29	20.60
	3H	19.30	20.72	19.67	21.05	21.41	19.75	21.18	20.13	21.50	21.87
	4H	19.71	21.05	20.11	21.40	21.77	20.09	21.42	20.48	21.77	22.15
	6H	19.91	21.14	20.32	21.51	21.90	20.21	21.44	20.62	21.81	22.20
	8H	19.93	21.11	20.35	21.50	21.90	20.22	21.40	20.64	21.78	22.18
	12H	19.92	21.05	20.35	21.43	21.86	20.22	21.35	20.65	21.73	22.16
4H	2H	18.46	19.80	18.86	20.15	20.52	18.89	20.23	19.29	20.58	20.95
	3H	20.07	21.18	20.48	21.58	21.98	20.44	21.55	20.85	21.94	22.35
	4H	20.57	21.57	21.00	21.98	22.42	20.85	21.85	21.28	22.26	22.70
	6H	20.84	21.71	21.29	22.15	22.61	21.03	21.90	21.48	22.34	22.79
	8H	20.87	21.68	21.34	22.13	22.59	21.05	21.86	21.51	22.31	22.77
	12H	20.88	21.61	21.36	22.08	22.55	21.07	21.79	21.55	22.27	22.74
8H	4H	20.74	21.56	21.21	22.00	22.47	21.00	21.81	21.46	22.25	22.72
	6H	21.06	21.73	21.56	22.22	22.70	21.22	21.89	21.71	22.38	22.85
	8H	21.12	21.72	21.63	22.23	22.71	21.26	21.86	21.77	22.37	22.86
	12H	21.15	21.68	21.66	22.17	22.73	21.30	21.83	21.81	22.32	22.88
12H	4H	20.74	21.46	21.22	21.94	22.41	20.99	21.72	21.47	22.19	22.66
	6H	21.05	21.65	21.56	22.16	22.64	21.21	21.81	21.72	22.31	22.80
	8H	21.14	21.67	21.65	22.16	22.72	21.28	21.81	21.79	22.30	22.86

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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