

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: P1499422

Luminaire Tested: MAE-G-4-120-2STD-LO-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499422
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-LO-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

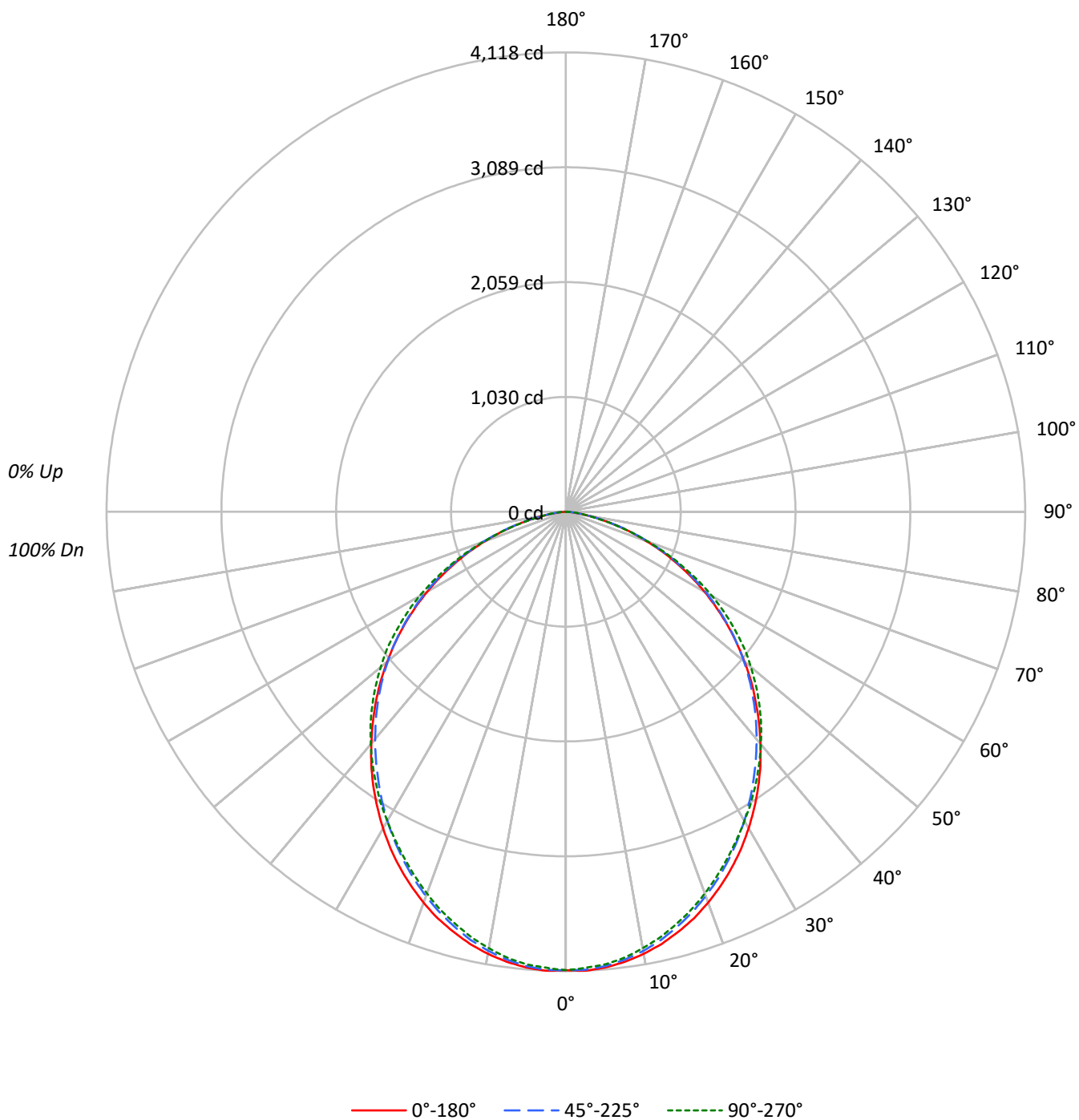
Lumens per Lamp: N/A
Luminaire Lumens: 10065.0 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 116.5
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°	5529	5529	5529
5°	5538	5521	5500
10°	5498	5461	5428
15°	5430	5367	5329
20°	5340	5250	5215
25°	5226	5116	5087
30°	5091	4971	4974
35°	4940	4817	4877
40°	4766	4672	4777
45°	4580	4524	4672
50°	4378	4361	4533
55°	4145	4165	4349
60°	3864	3918	4088
65°	3509	3580	3667
70°	3024	3100	3101
75°	2404	2466	2365
80°	1618	1643	1567
85°	818	1041	1292

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4672 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.7	3.8
10°-20°	1085.4	10.8
20°-30°	1591.4	15.8
30°-40°	1850.7	18.4
40°-50°	1852.2	18.4
50°-60°	1598.5	15.9
60°-70°	1110.8	11.0
70°-80°	501.0	5.0
80°-90°	88.3	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°	3063.6	30.4
0°-40°	4914.2	48.8
0°-60°	8364.9	83.1
0°-90°	10065.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10065.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4109	4109	4109	4109	4109	
5°	4100	4084	4088	4067	4072	389
15°	3898	3873	3853	3822	3826	1099
25°	3520	3487	3446	3419	3427	1620
35°	3007	2967	2932	2945	2969	1880
45°	2407	2374	2377	2424	2455	1857
55°	1767	1744	1775	1831	1854	1578
65°	1102	1097	1124	1141	1152	1091
75°	462	463	474	460	455	498
85°	53	58	67	79	84	79
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4109.4	4109.4	4109.4	4109.4	4109.4
2.5°	4118.2	4102.6	4109.4	4094.0	4091.1
5°	4100.0	4083.6	4087.8	4067.2	4071.9
7.5°	4068.4	4050.3	4049.5	4027.1	4032.0
10°	4024.3	4002.9	3997.2	3970.1	3973.0
12.5°	3968.0	3944.8	3932.6	3902.1	3907.4
15°	3897.9	3872.6	3852.8	3822.2	3825.8
17.5°	3820.8	3794.6	3764.6	3732.6	3740.9
20°	3729.3	3701.6	3666.3	3632.9	3642.4
22.5°	3628.1	3597.3	3561.5	3529.1	3535.9
25°	3520.4	3487.1	3446.4	3418.6	3426.7
27.5°	3403.0	3366.2	3326.1	3302.7	3314.5
30°	3277.1	3239.1	3199.3	3185.6	3201.4
32.5°	3144.4	3106.3	3068.8	3068.5	3090.5
35°	3007.3	2967.0	2932.5	2944.8	2969.2
37.5°	2865.1	2825.5	2797.6	2822.0	2847.6
40°	2713.7	2678.1	2660.2	2692.8	2719.9
42.5°	2562.0	2528.4	2520.5	2561.8	2590.9
45°	2407.1	2374.3	2377.4	2424.0	2455.2
47.5°	2253.9	2220.1	2232.9	2284.5	2312.5
50°	2091.3	2063.0	2083.2	2137.4	2165.6
52.5°	1928.6	1902.6	1930.8	1987.9	2020.4
55°	1766.8	1743.9	1775.4	1831.0	1854.0
57.5°	1600.9	1585.0	1618.6	1666.9	1688.8
60°	1435.8	1421.8	1455.8	1499.3	1519.2
62.5°	1269.0	1258.1	1291.8	1325.3	1336.1
65°	1102.1	1096.6	1124.4	1141.1	1151.9
67.5°	938.6	932.6	958.0	970.9	973.1
70°	768.8	768.2	787.9	791.7	788.2
72.5°	613.4	611.0	625.1	620.4	613.8
75°	462.4	462.6	474.3	460.4	455.0
77.5°	325.3	331.1	331.7	319.2	314.6
80°	208.8	216.7	212.0	206.3	202.2
82.5°	116.6	121.9	121.3	132.4	136.9
85°	53.0	57.9	67.4	79.0	83.7
87.5°	17.9	22.1	28.1	29.9	28.1
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	16.87	18.45	17.23	18.76	19.08	17.22	18.80	17.59	19.12	19.43
	3H	18.32	19.75	18.70	20.07	20.43	18.64	20.06	19.01	20.39	20.75
	4H	18.74	20.08	19.14	20.43	20.80	19.01	20.35	19.41	20.70	21.07
	6H	18.94	20.18	19.36	20.55	20.94	19.18	20.41	19.59	20.78	21.17
	8H	18.97	20.15	19.39	20.54	20.94	19.21	20.39	19.63	20.77	21.17
	12H	18.97	20.09	19.40	20.48	20.90	19.22	20.35	19.65	20.73	21.16
4H	2H	17.44	18.78	17.84	19.13	19.50	17.73	19.07	18.13	19.41	19.79
	3H	19.07	20.18	19.48	20.58	20.98	19.33	20.44	19.74	20.84	21.24
	4H	19.58	20.58	20.01	20.99	21.43	19.79	20.79	20.22	21.20	21.64
	6H	19.85	20.72	20.31	21.17	21.62	20.02	20.89	20.48	21.34	21.79
	8H	19.89	20.71	20.36	21.15	21.62	20.07	20.88	20.53	21.33	21.79
	12H	19.90	20.63	20.39	21.11	21.58	20.11	20.83	20.59	21.31	21.78
8H	4H	19.76	20.57	20.22	21.01	21.48	19.95	20.76	20.41	21.20	21.67
	6H	20.09	20.76	20.58	21.25	21.72	20.23	20.90	20.73	21.39	21.87
	8H	20.15	20.75	20.66	21.26	21.75	20.31	20.91	20.82	21.42	21.90
	12H	20.18	20.71	20.69	21.20	21.77	20.38	20.90	20.88	21.40	21.96
12H	4H	19.75	20.48	20.23	20.95	21.43	19.94	20.67	20.42	21.15	21.62
	6H	20.08	20.68	20.59	21.19	21.68	20.23	20.83	20.74	21.34	21.82
	8H	20.18	20.71	20.69	21.20	21.76	20.34	20.86	20.84	21.36	21.92