

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: P1499302

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499302
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-4-120-2LO-HI-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

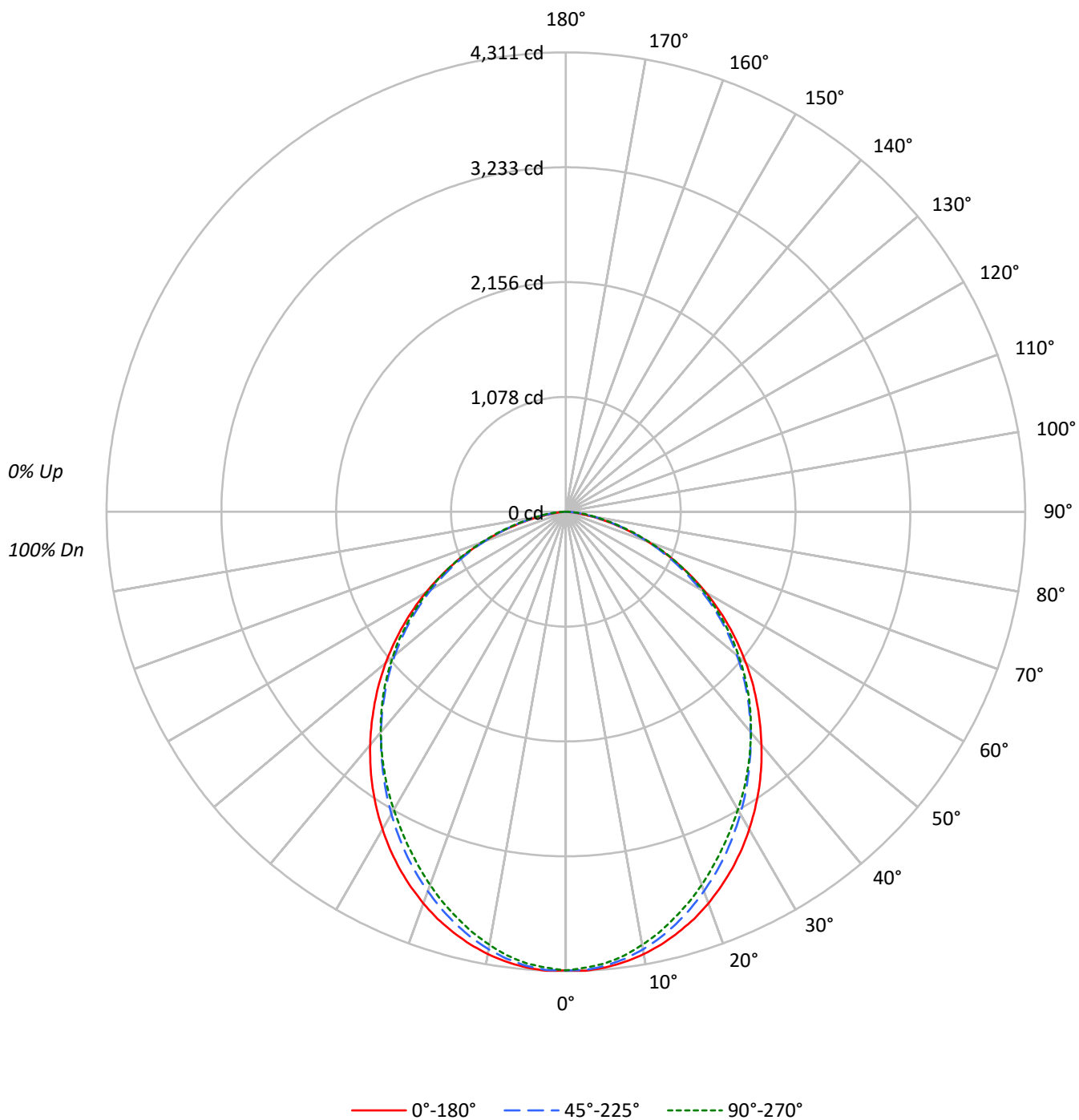
Lumens per Lamp: N/A
Luminaire Lumens: 10357.0 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.9
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5790	5790	5790
5°	5798	5777	5745
10°	5759	5698	5639
15°	5690	5575	5494
20°	5600	5425	5336
25°	5484	5263	5168
30°	5348	5088	5015
35°	5194	4910	4881
40°	5017	4741	4747
45°	4826	4570	4607
50°	4618	4388	4441
55°	4377	4177	4252
60°	4089	3920	4030
65°	3727	3595	3726
70°	3229	3189	3316
75°	2584	2672	2775
80°	1769	1989	2148
85°	934	1437	1903

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4826 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.2	3.9
10°-20°	1127.5	10.9
20°-30°	1640.4	15.8
30°-40°	1893.2	18.3
40°-50°	1880.7	18.2
50°-60°	1614.5	15.6
60°-70°	1135.6	11.0
70°-80°	547.5	5.3
80°-90°	113.4	1.1
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°	3172.2	30.6
0°-40°	5065.3	48.9
0°-60°	8560.5	82.7
0°-90°	10357.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10357.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4304	4304	4304	4304	4304	
5°	4293	4280	4277	4247	4254	407
15°	4085	4053	4002	3944	3944	1151
25°	3694	3638	3545	3482	3481	1700
35°	3162	3087	2989	2961	2971	1976
45°	2536	2465	2402	2407	2421	1956
55°	1866	1806	1780	1801	1813	1666
65°	1171	1132	1129	1156	1170	1158
75°	497	482	514	528	534	535
85°	60	71	93	114	123	88
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4303.6	4303.6	4303.6	4303.6	4303.6
2.5°	4311.3	4301.5	4303.6	4279.9	4281.9
5°	4293.0	4280.4	4277.1	4246.6	4253.5
7.5°	4260.2	4243.8	4231.7	4195.8	4201.2
10°	4215.1	4193.3	4170.5	4125.4	4127.6
12.5°	4156.8	4130.3	4094.5	4041.1	4043.9
15°	4084.8	4053.3	4002.4	3943.8	3944.0
17.5°	4004.7	3968.2	3900.8	3837.5	3841.9
20°	3910.9	3868.7	3789.1	3723.6	3726.8
22.5°	3806.3	3757.3	3672.6	3606.1	3604.8
25°	3694.0	3638.5	3545.0	3481.9	3480.9
27.5°	3572.8	3510.6	3412.4	3353.2	3355.0
30°	3442.2	3375.5	3274.7	3223.9	3228.2
32.5°	3304.8	3234.9	3135.0	3095.3	3104.3
35°	3162.1	3087.3	2989.3	2961.3	2971.4
37.5°	3012.8	2938.9	2845.0	2828.6	2838.9
40°	2856.5	2784.1	2699.0	2690.4	2702.5
42.5°	2698.0	2627.1	2551.8	2551.3	2564.5
45°	2536.5	2465.1	2401.5	2407.4	2421.4
47.5°	2374.6	2304.1	2251.3	2262.1	2274.7
50°	2206.4	2140.0	2096.1	2111.1	2121.8
52.5°	2034.0	1972.2	1939.4	1957.8	1974.6
55°	1866.0	1806.1	1780.5	1800.6	1812.6
57.5°	1692.4	1640.6	1621.0	1641.6	1655.0
60°	1519.4	1470.7	1456.7	1481.7	1497.7
62.5°	1344.4	1299.7	1293.7	1320.4	1334.8
65°	1170.6	1131.6	1129.3	1155.6	1170.2
67.5°	997.6	962.8	969.6	1000.7	1009.3
70°	820.7	792.6	810.7	836.7	842.9
72.5°	656.1	632.2	658.0	679.3	682.5
75°	497.0	481.6	514.0	528.4	533.8
77.5°	352.4	348.6	376.1	390.7	397.1
80°	228.3	235.3	256.7	273.9	277.2
82.5°	129.9	139.7	160.0	185.1	194.9
85°	60.5	71.0	93.1	114.1	123.3
87.5°	20.4	28.0	39.5	43.2	41.2
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	17.03	18.62	17.40	18.93	19.24	17.01	18.59	17.38	18.91	19.22
	3H	18.51	19.94	18.89	20.26	20.62	18.58	20.00	18.96	20.33	20.69
	4H	18.95	20.28	19.34	20.63	21.01	19.07	20.41	19.47	20.76	21.14
	6H	19.16	20.40	19.58	20.77	21.16	19.36	20.60	19.77	20.96	21.36
	8H	19.20	20.38	19.62	20.77	21.16	19.44	20.62	19.87	21.01	21.41
	12H	19.20	20.33	19.63	20.71	21.14	19.49	20.62	19.92	21.01	21.44
4H	2H	17.56	18.90	17.96	19.25	19.62	17.54	18.88	17.94	19.23	19.61
	3H	19.22	20.34	19.63	20.73	21.14	19.30	20.42	19.71	20.82	21.22
	4H	19.74	20.75	20.17	21.16	21.60	19.90	20.91	20.33	21.32	21.76
	6H	20.04	20.92	20.50	21.36	21.82	20.29	21.16	20.74	21.60	22.06
	8H	20.09	20.91	20.55	21.35	21.82	20.40	21.21	20.86	21.66	22.12
	12H	20.11	20.84	20.59	21.32	21.79	20.48	21.21	20.97	21.69	22.16
8H	4H	19.95	20.76	20.41	21.21	21.67	20.09	20.91	20.55	21.35	21.82
	6H	20.31	20.99	20.81	21.48	21.95	20.55	21.23	21.05	21.72	22.19
	8H	20.39	21.00	20.90	21.50	21.99	20.71	21.32	21.22	21.82	22.31
	12H	20.44	20.97	20.94	21.46	22.02	20.85	21.38	21.36	21.88	22.44
12H	4H	19.96	20.69	20.44	21.16	21.63	20.09	20.82	20.57	21.30	21.77
	6H	20.32	20.93	20.84	21.44	21.92	20.56	21.16	21.07	21.67	22.16
	8H	20.44	20.98	20.95	21.47	22.03	20.76	21.29	21.27	21.78	22.35