

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: P1499233

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499233
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-4-120-2HI-LO-35-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

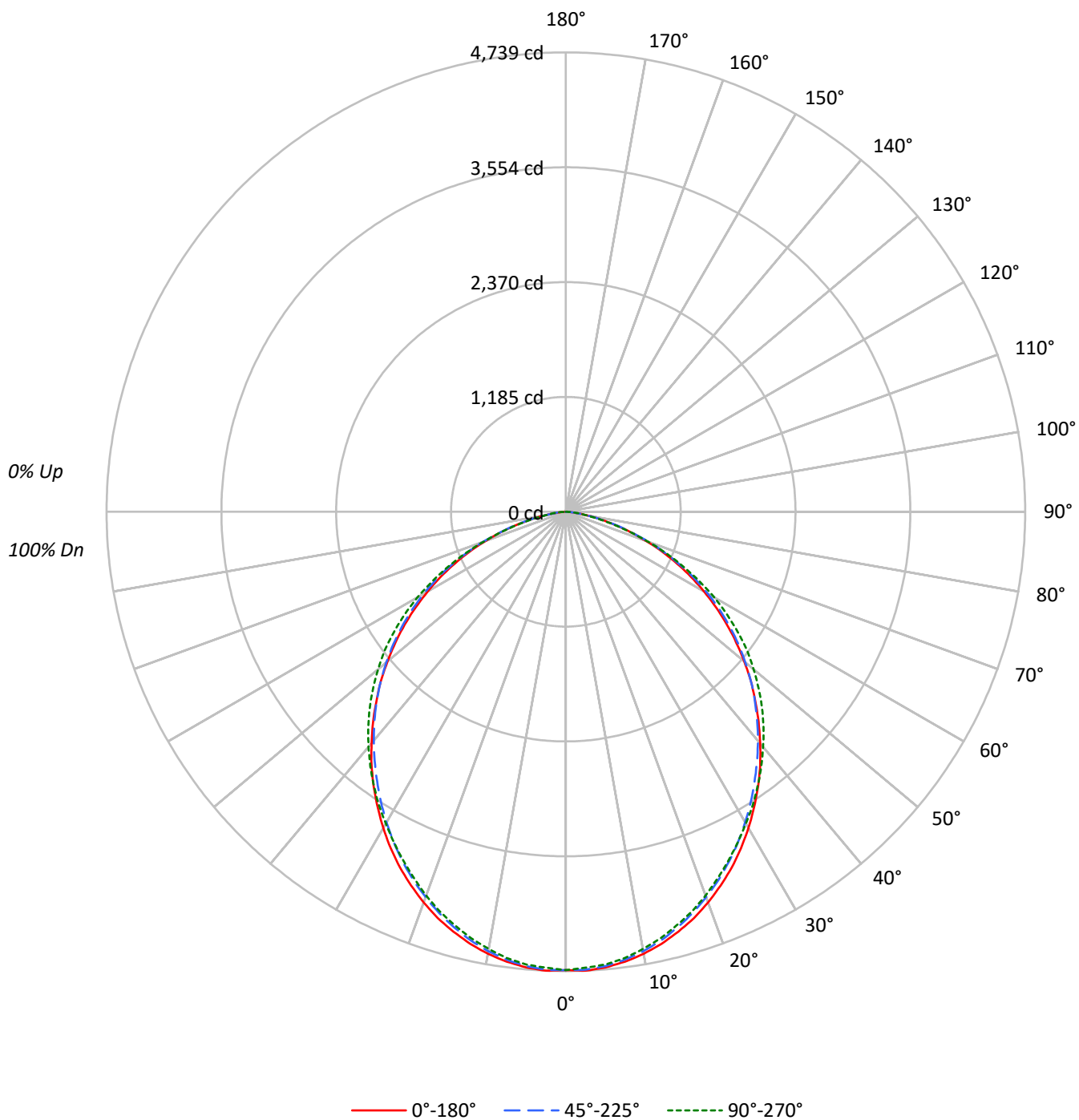
Lumens per Lamp: N/A
Luminaire Lumens: 11627.0 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.8
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	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86		
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	78	65	56	50	76	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	34	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	54	41	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6362	6362	6362
5°	6372	6354	6331
10°	6326	6289	6257
15°	6246	6186	6154
20°	6142	6058	6032
25°	6010	5911	5893
30°	5854	5749	5772
35°	5678	5576	5669
40°	5478	5415	5562
45°	5262	5247	5448
50°	5028	5063	5293
55°	4759	4838	5081
60°	4435	4554	4767
65°	4024	4158	4249
70°	3464	3581	3550
75°	2749	2814	2646
80°	1843	1822	1674
85°	923	1108	1348

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5448 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.2	3.8
10°-20°	1251.2	10.8
20°-30°	1837.6	15.8
30°-40°	2140.7	18.4
40°-50°	2146.1	18.5
50°-60°	1854.2	15.9
60°-70°	1285.1	11.1
70°-80°	570.7	4.9
80°-90°	96.2	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°	3534.0	30.4
0°-40°	5674.7	48.8
0°-60°	9675.0	83.2
0°-90°	11627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11627.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4728	4728	4728	4728	4728	
5°	4718	4698	4704	4683	4688	447
15°	4484	4456	4441	4413	4418	1264
25°	4049	4016	3982	3958	3970	1863
35°	3457	3419	3395	3419	3451	2161
45°	2766	2737	2758	2822	2863	2134
55°	2029	2012	2063	2136	2166	1812
65°	1264	1266	1306	1323	1334	1251
75°	529	533	541	518	509	569
85°	60	64	72	83	87	90
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4728.1	4728.1	4728.1	4728.1	4728.1
2.5°	4738.7	4719.1	4728.1	4712.4	4707.8
5°	4717.5	4697.6	4704.3	4682.9	4687.8
7.5°	4681.1	4659.7	4661.6	4639.0	4644.5
10°	4630.0	4605.3	4602.9	4576.0	4579.6
12.5°	4565.2	4539.0	4530.8	4501.2	4507.9
15°	4484.1	4456.3	4441.1	4412.7	4417.7
17.5°	4395.3	4367.4	4342.0	4312.8	4323.3
20°	4289.5	4260.9	4231.1	4200.4	4213.1
22.5°	4172.7	4141.5	4112.2	4083.2	4093.1
25°	4048.6	4015.5	3981.6	3958.2	3969.8
27.5°	3913.2	3876.7	3844.9	3826.8	3842.9
30°	3767.9	3731.0	3700.2	3693.7	3714.9
32.5°	3614.8	3578.6	3550.8	3560.4	3589.3
35°	3457.0	3418.8	3394.8	3419.2	3451.2
37.5°	3293.3	3256.1	3240.3	3279.1	3312.6
40°	3118.6	3086.6	3082.8	3131.1	3166.4
42.5°	2944.0	2914.4	2922.3	2980.8	3018.7
45°	2765.6	2737.1	2757.7	2822.2	2862.9
47.5°	2589.6	2559.6	2591.1	2661.4	2697.8
50°	2402.1	2378.8	2418.6	2491.5	2528.7
52.5°	2215.4	2194.3	2242.4	2318.6	2360.4
55°	2028.8	2011.5	2062.6	2136.3	2165.8
57.5°	1837.9	1828.5	1881.0	1944.2	1971.8
60°	1648.1	1640.6	1692.2	1747.4	1771.6
62.5°	1456.2	1452.0	1501.3	1541.9	1553.6
65°	1263.9	1266.0	1306.0	1322.8	1334.5
67.5°	1076.3	1076.5	1110.7	1121.1	1122.0
70°	880.6	886.9	910.2	908.9	902.5
72.5°	702.3	704.9	718.4	706.3	696.2
75°	528.8	533.0	541.3	518.0	509.0
77.5°	371.4	380.5	374.3	353.0	344.9
80°	237.8	247.1	235.1	222.6	216.1
82.5°	132.1	137.3	131.2	140.5	144.5
85°	59.8	63.9	71.8	83.0	87.3
87.5°	20.3	24.2	29.8	31.3	29.4
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	17.35	18.94	17.72	19.25	19.56	17.79	19.37	18.16	19.69	20.00
	3H	18.80	20.23	19.18	20.55	20.92	19.17	20.60	19.55	20.92	21.28
	4H	19.22	20.56	19.62	20.90	21.28	19.52	20.86	19.92	21.21	21.59
	6H	19.42	20.65	19.83	21.02	21.41	19.67	20.90	20.08	21.27	21.66
	8H	19.44	20.62	19.87	21.01	21.41	19.69	20.86	20.11	21.25	21.65
	12H	19.44	20.56	19.87	20.95	21.38	19.69	20.82	20.12	21.20	21.63
4H	2H	17.94	19.28	18.34	19.62	20.00	18.29	19.63	18.69	19.98	20.36
	3H	19.56	20.67	19.97	21.07	21.47	19.85	20.96	20.26	21.36	21.76
	4H	20.06	21.06	20.50	21.48	21.91	20.29	21.29	20.72	21.70	22.14
	6H	20.34	21.20	20.79	21.65	22.10	20.49	21.36	20.95	21.80	22.26
	8H	20.37	21.18	20.84	21.63	22.09	20.53	21.34	20.99	21.78	22.25
	12H	20.38	21.11	20.86	21.58	22.05	20.55	21.28	21.03	21.76	22.23
8H	4H	20.24	21.05	20.70	21.49	21.96	20.44	21.25	20.90	21.70	22.16
	6H	20.56	21.23	21.05	21.72	22.19	20.69	21.36	21.19	21.85	22.33
	8H	20.62	21.22	21.13	21.73	22.21	20.75	21.35	21.26	21.86	22.34
	12H	20.65	21.18	21.16	21.67	22.23	20.80	21.33	21.31	21.82	22.39
12H	4H	20.23	20.95	20.71	21.43	21.90	20.44	21.16	20.92	21.64	22.11
	6H	20.55	21.15	21.06	21.66	22.14	20.68	21.28	21.19	21.79	22.28
	8H	20.64	21.17	21.15	21.66	22.22	20.77	21.30	21.28	21.79	22.36