

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: P1499260

Luminaire Tested: MAE-G-4-120-2HI-STD-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499260
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-STD-40-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

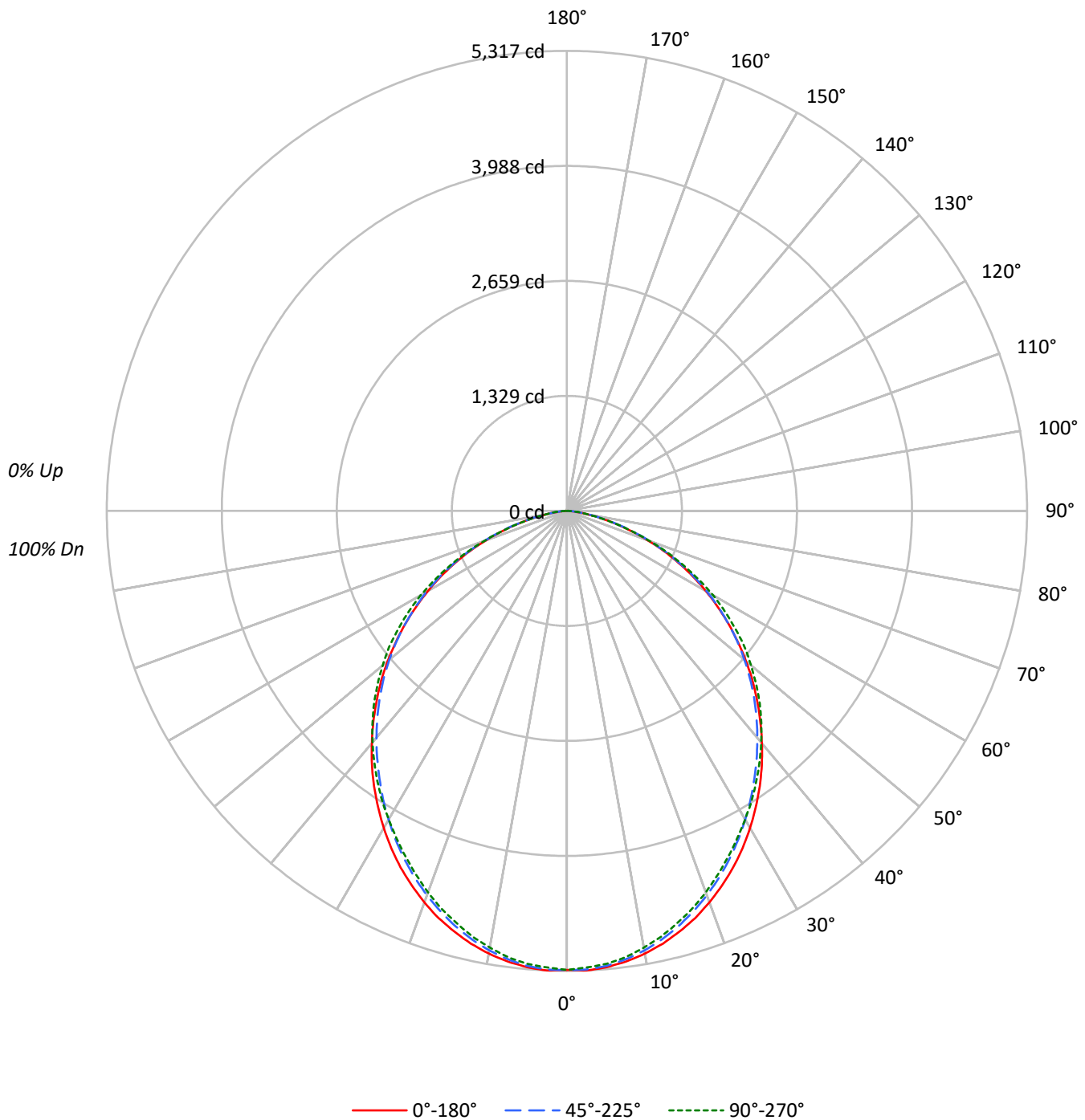
Lumens per Lamp: N/A
Luminaire Lumens: 12971.0 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 157.1
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

TEST NUMBER: P1499260

CATALOG NUMBER: MAE-G-4-120-2HI-STD-40-90-VRDCPH

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	92	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	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	54	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°	7138	7138	7138
5°	7149	7127	7099
10°	7099	7048	7002
15°	7010	6923	6869
20°	6895	6768	6717
25°	6749	6593	6547
30°	6575	6402	6397
35°	6380	6201	6267
40°	6157	6013	6135
45°	5917	5819	5995
50°	5656	5607	5813
55°	5355	5353	5576
60°	4994	5035	5246
65°	4537	4602	4720
70°	3912	3995	4012
75°	3112	3195	3092
80°	2098	2156	2088
85°	1065	1388	1738

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5995 cd/sqm

TEST NUMBER: P1499260

CATALOG NUMBER: MAE-G-4-120-2HI-STD-40-90-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.2	3.8
10°-20°	1400.2	10.8
20°-30°	2051.2	15.8
30°-40°	2383.5	18.4
40°-50°	2383.8	18.4
50°-60°	2056.1	15.9
60°-70°	1430.6	11.0
70°-80°	649.8	5.0
80°-90°	116.6	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°	3950.6	30.5
0°-40°	6334.1	48.8
0°-60°	10774.0	83.1
0°-90°	12971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12971.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5305	5305	5305	5305	5305	
5°	5293	5273	5277	5249	5256	502
15°	5033	5000	4970	4927	4931	1419
25°	4546	4500	4441	4401	4410	2092
35°	3884	3828	3776	3786	3816	2428
45°	3110	3063	3058	3113	3151	2399
55°	2283	2249	2282	2349	2377	2039
65°	1425	1414	1446	1468	1482	1410
75°	599	597	614	600	595	644
85°	69	76	90	106	113	103
90°	0	0	0	0	0	

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CATALOG NUMBER: MAE-G-4-120-2HI-STD-40-90-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5305.4	5305.4	5305.4	5305.4	5305.4
2.5°	5316.7	5297.4	5305.4	5284.6	5281.6
5°	5293.3	5272.7	5277.1	5249.3	5255.7
7.5°	5252.5	5229.5	5227.1	5196.5	5202.8
10°	5195.7	5168.2	5158.6	5121.5	5125.1
12.5°	5123.1	5092.8	5074.1	5032.0	5038.5
15°	5032.7	4999.5	4970.0	4927.1	4931.3
17.5°	4933.3	4898.3	4855.0	4809.9	4820.0
20°	4815.3	4777.9	4726.9	4679.9	4691.3
22.5°	4685.0	4643.0	4590.7	4544.7	4552.5
25°	4545.9	4500.3	4441.2	4400.9	4410.2
27.5°	4394.7	4344.1	4285.2	4250.5	4264.3
30°	4232.2	4179.6	4120.9	4098.5	4117.2
32.5°	4061.0	4008.1	3951.9	3946.3	3973.1
35°	3884.3	3827.9	3775.5	3786.2	3815.7
37.5°	3700.5	3645.3	3601.1	3627.1	3658.0
40°	3505.4	3455.0	3423.3	3460.0	3492.9
42.5°	3309.6	3261.7	3242.9	3290.5	3326.0
45°	3109.7	3062.6	3058.1	3112.8	3150.6
47.5°	2911.7	2863.5	2871.7	2932.7	2966.7
50°	2702.1	2660.8	2678.6	2743.3	2777.2
52.5°	2491.8	2453.8	2482.2	2550.6	2590.4
55°	2283.0	2248.9	2281.9	2349.0	2377.1
57.5°	2068.9	2043.8	2080.2	2138.7	2165.7
60°	1855.8	1833.3	1870.9	1924.3	1949.4
62.5°	1640.4	1621.9	1660.3	1702.4	1716.8
65°	1425.0	1413.6	1445.6	1468.2	1482.5
67.5°	1213.7	1202.2	1232.4	1251.4	1255.0
70°	994.5	990.3	1015.4	1023.1	1019.8
72.5°	793.7	787.8	807.5	804.8	797.5
75°	598.6	596.9	614.5	600.3	594.8
77.5°	421.5	427.6	431.9	419.4	415.0
80°	270.8	280.7	278.2	273.7	269.5
82.5°	151.5	158.9	160.8	176.9	183.3
85°	69.0	76.0	89.9	106.1	112.6
87.5°	23.4	29.2	37.5	40.0	37.8
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	17.75	19.34	18.12	19.65	19.97	18.07	19.65	18.44	19.97	20.28
	3H	19.21	20.64	19.59	20.96	21.33	19.50	20.92	19.88	21.25	21.61
	4H	19.63	20.97	20.03	21.32	21.70	19.89	21.23	20.29	21.57	21.95
	6H	19.84	21.07	20.25	21.44	21.83	20.07	21.30	20.48	21.67	22.06
	8H	19.86	21.04	20.29	21.43	21.83	20.10	21.28	20.53	21.67	22.07
	12H	19.86	20.99	20.29	21.37	21.80	20.12	21.25	20.55	21.63	22.06
4H	2H	18.33	19.66	18.72	20.01	20.39	18.58	19.92	18.98	20.27	20.64
	3H	19.96	21.07	20.37	21.47	21.87	20.19	21.31	20.60	21.70	22.10
	4H	20.47	21.47	20.90	21.88	22.32	20.67	21.67	21.10	22.08	22.52
	6H	20.74	21.61	21.20	22.06	22.51	20.92	21.79	21.38	22.23	22.69
	8H	20.79	21.60	21.25	22.04	22.51	20.97	21.79	21.44	22.23	22.70
	12H	20.80	21.52	21.28	22.00	22.47	21.01	21.74	21.49	22.22	22.69
8H	4H	20.65	21.46	21.11	21.90	22.37	20.83	21.64	21.29	22.09	22.55
	6H	20.98	21.65	21.48	22.14	22.62	21.14	21.81	21.63	22.30	22.77
	8H	21.05	21.65	21.56	22.15	22.64	21.22	21.82	21.73	22.33	22.81
	12H	21.08	21.61	21.59	22.10	22.66	21.29	21.82	21.80	22.31	22.88
12H	4H	20.64	21.37	21.12	21.85	22.32	20.83	21.56	21.31	22.03	22.50
	6H	20.98	21.58	21.49	22.09	22.57	21.13	21.73	21.64	22.24	22.73
	8H	21.07	21.60	21.58	22.10	22.66	21.25	21.78	21.76	22.27	22.83