

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: P1499179

Luminaire Tested: MAE-G-4-120-2HI-30-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499179
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-30-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

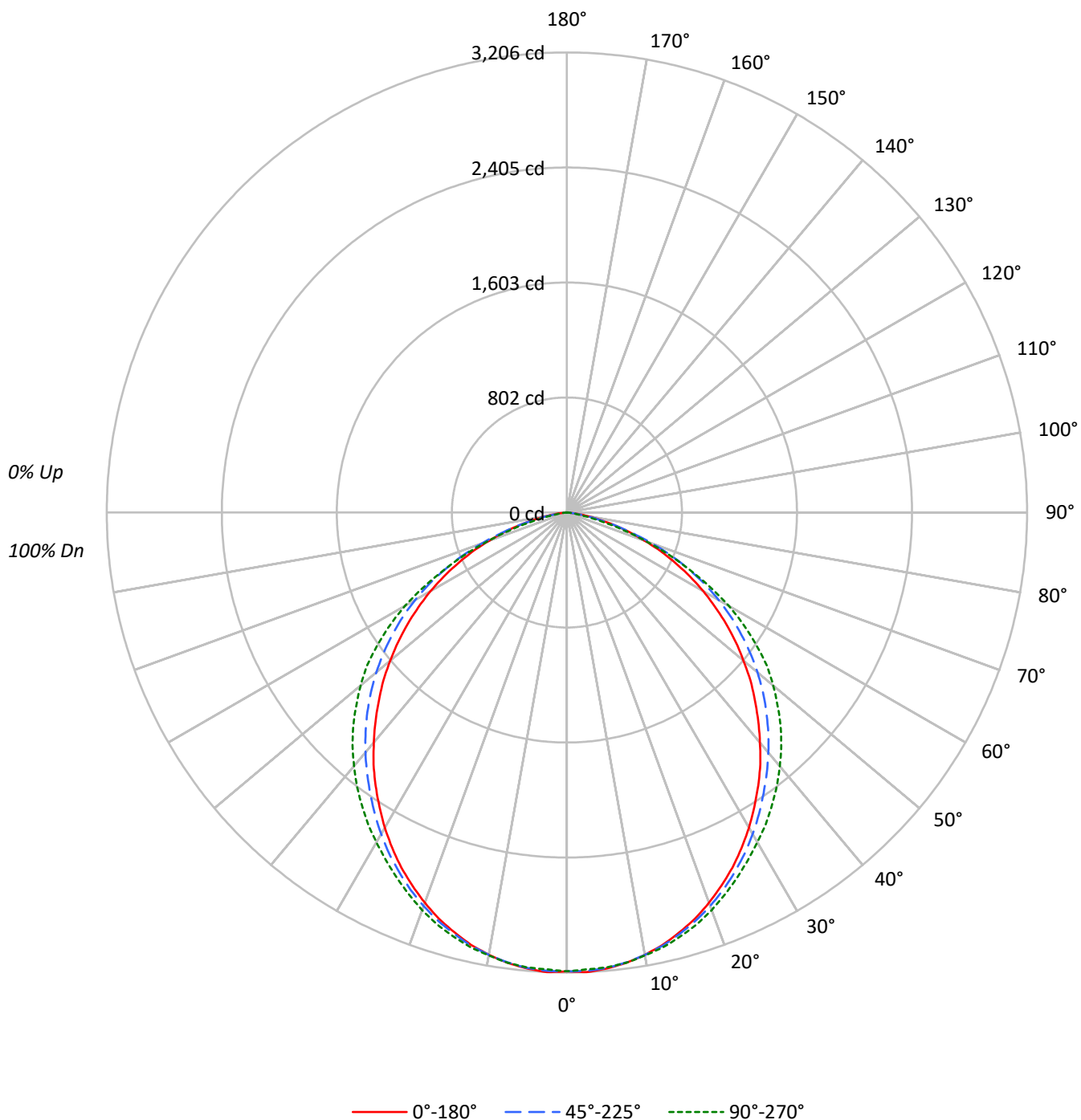
Lumens per Lamp: N/A
Luminaire Lumens: 8071.0 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88.6
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

TEST NUMBER: P1499179

CATALOG NUMBER: MAE-G-4-120-2HI-30-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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	102	98	107	103	100	97	99	96	93		95	93	91		92
2	100	93	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		75	69	65		72
4	84	73	64	58	82	71	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	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	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	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4302	4302	4302
5°	4310	4303	4298
10°	4276	4276	4282
15°	4219	4234	4260
20°	4144	4179	4222
25°	4052	4105	4167
30°	3940	4021	4123
35°	3816	3923	4091
40°	3675	3835	4052
45°	3525	3739	4008
50°	3361	3627	3927
55°	3176	3482	3779
60°	2951	3287	3509
65°	2662	2986	3004
70°	2272	2485	2323
75°	1784	1800	1451
80°	1160	926	556
85°	537	352	286

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4008 cd/sqm

TEST NUMBER: P1499179

CATALOG NUMBER: MAE-G-4-120-2HI-30-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.0	3.7
10°-20°	856.5	10.6
20°-30°	1272.4	15.8
30°-40°	1498.7	18.6
40°-50°	1518.3	18.8
50°-60°	1321.5	16.4
60°-70°	900.5	11.2
70°-80°	360.0	4.5
80°-90°	41.2	0.5
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°	2430.8	30.1
0°-40°	3929.5	48.7
0°-60°	6769.3	83.9
0°-90°	8071.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8071.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3197	3197	3197	3197	3197	
5°	3191	3172	3186	3181	3182	303
15°	3029	3016	3040	3051	3058	854
25°	2729	2731	2765	2788	2807	1256
35°	2323	2334	2389	2452	2491	1452
45°	1852	1875	1965	2058	2106	1430
55°	1354	1383	1484	1578	1611	1209
65°	836	875	938	939	944	828
75°	343	364	346	298	279	370
85°	35	31	23	21	18	55
90°	0	0	0	0	0	

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CATALOG NUMBER: MAE-G-4-120-2HI-30-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3197.3	3197.3	3197.3	3197.3	3197.3
2.5°	3206.2	3185.6	3197.3	3195.2	3186.5
5°	3190.8	3172.4	3185.6	3181.2	3182.2
7.5°	3165.9	3148.6	3162.8	3161.6	3164.9
10°	3130.1	3112.9	3130.1	3131.1	3134.4
12.5°	3085.5	3070.4	3091.0	3095.3	3103.0
15°	3029.1	3016.1	3039.9	3050.9	3058.4
17.5°	2968.4	2959.8	2983.5	2997.7	3009.7
20°	2894.5	2890.2	2918.5	2932.4	2948.7
22.5°	2814.1	2811.9	2845.8	2863.0	2879.4
25°	2729.4	2730.6	2765.4	2788.2	2806.7
27.5°	2636.0	2638.2	2680.7	2707.8	2730.6
30°	2536.2	2541.7	2588.3	2625.2	2653.6
32.5°	2430.9	2440.7	2490.6	2541.7	2577.5
35°	2323.4	2334.4	2388.6	2451.5	2490.6
37.5°	2212.7	2224.7	2287.6	2361.5	2402.8
40°	2092.3	2110.5	2183.5	2264.8	2307.0
42.5°	1973.7	1994.4	2076.0	2165.0	2210.6
45°	1852.3	1875.1	1965.1	2057.5	2106.2
47.5°	1735.0	1754.4	1851.1	1947.8	1991.2
50°	1605.9	1631.8	1732.8	1829.5	1876.1
52.5°	1482.0	1507.0	1610.2	1708.8	1756.8
55°	1353.9	1383.2	1484.2	1577.5	1611.1
57.5°	1224.8	1258.4	1356.1	1433.1	1462.4
60°	1096.6	1130.2	1221.4	1282.1	1304.0
62.5°	967.3	1002.1	1082.5	1119.4	1123.8
65°	836.0	875.2	938.0	939.2	943.6
67.5°	711.3	743.7	789.3	776.3	769.8
70°	577.6	613.4	631.8	605.9	590.6
72.5°	459.3	485.2	482.1	443.9	425.7
75°	343.2	363.8	346.3	297.6	279.1
77.5°	237.8	255.1	220.3	174.7	156.5
80°	149.7	157.4	119.5	84.7	71.8
82.5°	80.4	79.2	51.1	42.2	39.1
85°	34.8	31.4	22.8	20.6	18.5
87.5°	12.0	10.8	8.6	7.7	6.5
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	15.99	17.57	16.35	17.88	18.20	16.95	18.53	17.31	18.84	19.16
	3H	17.41	18.83	17.78	19.15	19.51	18.14	19.56	18.51	19.88	20.24
	4H	17.80	19.13	18.20	19.48	19.86	18.35	19.68	18.75	20.03	20.41
	6H	17.97	19.20	18.39	19.57	19.96	18.37	19.60	18.78	19.97	20.36
	8H	17.99	19.16	18.41	19.55	19.95	18.35	19.52	18.77	19.91	20.31
	12H	17.98	19.10	18.41	19.48	19.91	18.32	19.44	18.75	19.82	20.25
4H	2H	16.65	17.98	17.05	18.33	18.70	17.42	18.75	17.82	19.10	19.48
	3H	18.22	19.33	18.63	19.73	20.13	18.77	19.87	19.18	20.27	20.67
	4H	18.70	19.69	19.13	20.11	20.54	19.04	20.03	19.47	20.45	20.88
	6H	18.94	19.80	19.40	20.24	20.70	19.09	19.95	19.55	20.39	20.85
	8H	18.96	19.77	19.43	20.21	20.68	19.06	19.87	19.53	20.31	20.78
	12H	18.96	19.68	19.44	20.16	20.63	19.04	19.76	19.53	20.24	20.71
8H	4H	18.84	19.64	19.30	20.08	20.55	19.15	19.96	19.62	20.40	20.87
	6H	19.11	19.77	19.61	20.26	20.74	19.21	19.87	19.71	20.36	20.84
	8H	19.15	19.74	19.66	20.25	20.74	19.19	19.78	19.70	20.29	20.78
	12H	19.16	19.68	19.67	20.18	20.74	19.17	19.69	19.68	20.19	20.75
12H	4H	18.82	19.54	19.30	20.01	20.48	19.14	19.86	19.62	20.34	20.81
	6H	19.08	19.67	19.59	20.18	20.67	19.19	19.78	19.70	20.29	20.78
	8H	19.15	19.67	19.65	20.16	20.72	19.19	19.71	19.70	20.20	20.77

END OF REPORT