

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: P1498978

Luminaire Tested: MAE-G-4-120-1HI-STD-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1HI-STD-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

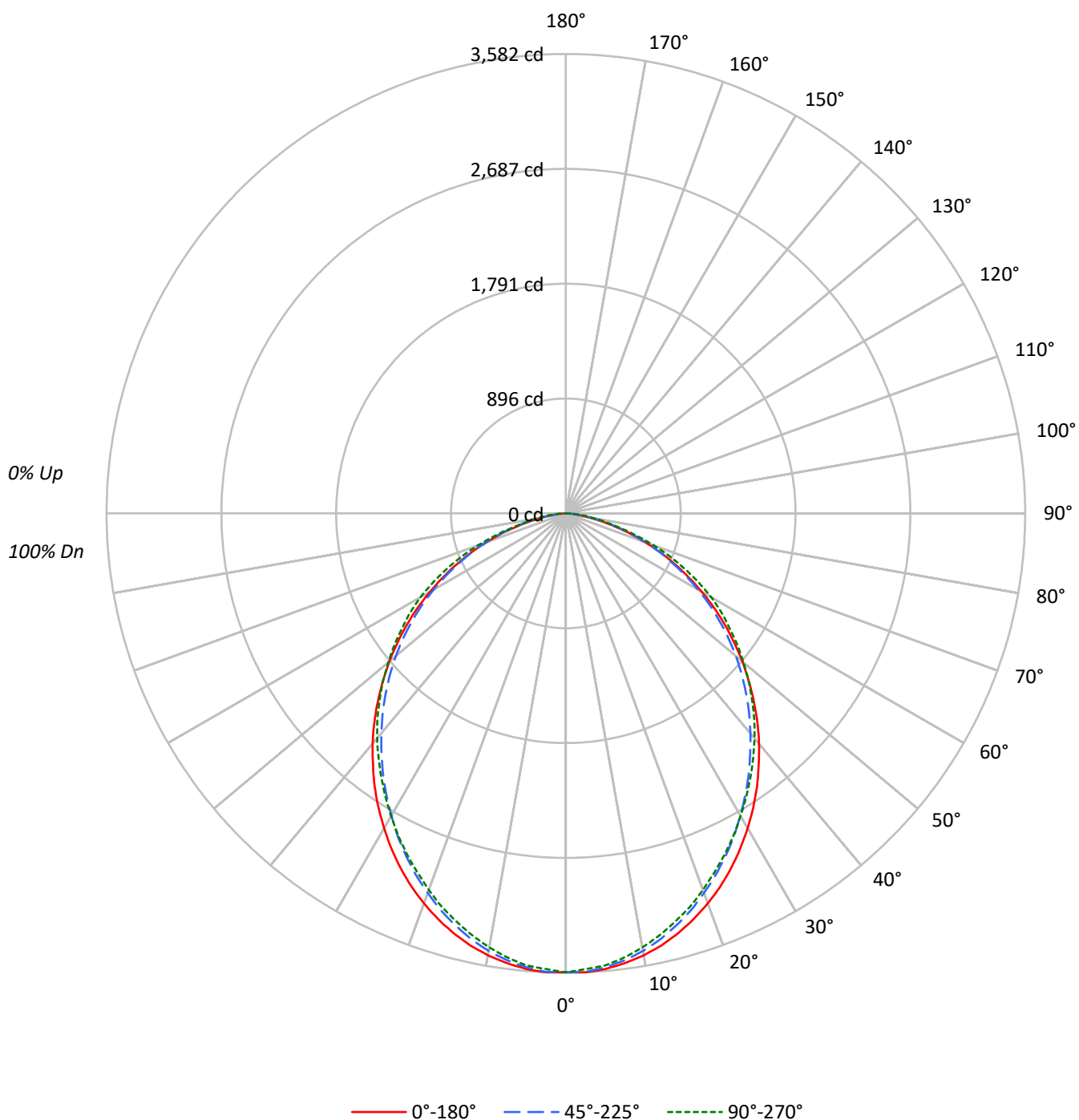
Lumens per Lamp: N/A
Luminaire Lumens: 8602.0 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 112.8
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
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	80	98	90	85	79	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		66	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	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4814	4814	4814
5°	4816	4798	4778
10°	4780	4733	4695
15°	4719	4634	4590
20°	4634	4510	4473
25°	4530	4376	4353
30°	4403	4225	4234
35°	4270	4083	4123
40°	4116	3932	4021
45°	3945	3782	3905
50°	3762	3621	3784
55°	3551	3431	3653
60°	3291	3212	3529
65°	2991	2921	3254
70°	2592	2611	2859
75°	2063	2192	2283
80°	1422	1652	1750
85°	792	1232	1576

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3945 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.0	3.9
10°-20°	938.5	10.9
20°-30°	1366.1	15.9
30°-40°	1575.3	18.3
40°-50°	1562.1	18.2
50°-60°	1339.3	15.6
60°-70°	941.4	10.9
70°-80°	448.9	5.2
80°-90°	94.4	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°	2640.6	30.7
0°-40°	4215.9	49.0
0°-60°	7117.3	82.7
0°-90°	8602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8602.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3578	3578	3578	3578	3578	
5°	3566	3562	3553	3530	3538	338
15°	3388	3371	3326	3289	3295	954
25°	3051	3012	2948	2920	2932	1404
35°	2600	2546	2486	2488	2510	1624
45°	2073	2026	1988	2025	2052	1599
55°	1514	1471	1463	1518	1557	1352
65°	939	906	918	990	1022	930
75°	397	383	422	442	439	429
85°	51	62	80	96	102	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3578.2	3578.2	3578.2	3578.2	3578.2
2.5°	3582.5	3585.2	3578.2	3552.5	3556.2
5°	3565.7	3562.4	3552.7	3529.8	3537.5
7.5°	3536.9	3532.4	3515.0	3488.3	3493.4
10°	3498.8	3489.9	3464.4	3431.5	3436.4
12.5°	3449.7	3438.1	3402.4	3365.9	3371.4
15°	3387.9	3371.0	3326.4	3289.1	3295.2
17.5°	3316.9	3298.7	3245.0	3204.8	3216.8
20°	3236.5	3211.3	3150.1	3113.1	3124.2
22.5°	3148.3	3116.2	3052.7	3018.2	3028.0
25°	3051.1	3011.8	2947.9	2920.4	2932.1
27.5°	2946.0	2903.2	2838.8	2814.6	2831.2
30°	2834.3	2788.5	2719.7	2707.2	2725.2
32.5°	2719.8	2671.4	2604.1	2600.7	2618.7
35°	2599.5	2546.4	2485.8	2488.4	2510.4
37.5°	2470.7	2420.3	2360.9	2379.4	2400.5
40°	2343.5	2291.2	2238.6	2264.5	2289.1
42.5°	2211.2	2161.3	2114.7	2145.8	2174.3
45°	2073.0	2026.4	1987.5	2024.6	2052.1
47.5°	1934.7	1888.2	1859.6	1900.9	1932.7
50°	1797.4	1753.3	1729.9	1777.0	1807.9
52.5°	1653.9	1611.6	1598.7	1647.7	1685.3
55°	1513.9	1470.9	1462.6	1518.2	1557.1
57.5°	1369.7	1336.1	1329.6	1391.8	1439.0
60°	1223.0	1189.4	1193.6	1267.9	1311.4
62.5°	1080.2	1046.9	1053.5	1137.0	1166.3
65°	939.4	906.2	917.6	990.3	1022.1
67.5°	800.8	769.7	792.9	859.8	880.1
70°	658.8	631.4	663.6	718.4	726.7
72.5°	526.2	502.5	542.7	578.0	578.0
75°	396.9	383.1	421.7	442.2	439.1
77.5°	283.8	276.4	310.3	321.9	319.7
80°	183.5	187.7	213.2	221.2	225.8
82.5°	106.8	115.5	134.9	155.4	160.2
85°	51.3	61.7	79.8	95.8	102.1
87.5°	17.9	24.9	33.1	36.6	35.6
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	16.24	17.82	16.61	18.14	18.45	16.55	18.13	16.91	18.44	18.76
	3H	17.68	19.10	18.06	19.43	19.79	18.15	19.57	18.53	19.90	20.26
	4H	18.10	19.44	18.50	19.79	20.17	18.62	19.96	19.02	20.30	20.68
	6H	18.32	19.55	18.73	19.92	20.31	18.87	20.11	19.29	20.48	20.87
	8H	18.35	19.53	18.78	19.92	20.32	18.95	20.13	19.37	20.52	20.92
	12H	18.35	19.48	18.78	19.87	20.29	19.00	20.13	19.43	20.51	20.94
4H	2H	16.77	18.11	17.17	18.45	18.83	17.02	18.36	17.42	18.70	19.08
	3H	18.39	19.51	18.80	19.90	20.30	18.82	19.94	19.23	20.34	20.74
	4H	18.90	19.90	19.33	20.32	20.75	19.40	20.40	19.83	20.82	21.25
	6H	19.19	20.07	19.65	20.51	20.96	19.75	20.62	20.21	21.07	21.52
	8H	19.24	20.06	19.71	20.50	20.97	19.86	20.67	20.32	21.11	21.58
	12H	19.27	20.00	19.75	20.47	20.94	19.94	20.67	20.42	21.14	21.61
8H	4H	19.12	19.93	19.58	20.38	20.84	19.57	20.39	20.03	20.83	21.30
	6H	19.47	20.15	19.97	20.64	21.11	20.00	20.67	20.49	21.16	21.64
	8H	19.56	20.16	20.07	20.67	21.16	20.15	20.75	20.66	21.26	21.75
	12H	19.61	20.14	20.12	20.63	21.19	20.28	20.82	20.79	21.31	21.87
12H	4H	19.13	19.86	19.61	20.33	20.80	19.57	20.30	20.05	20.78	21.25
	6H	19.49	20.09	20.00	20.60	21.09	20.00	20.60	20.51	21.11	21.60
	8H	19.61	20.15	20.12	20.64	21.20	20.19	20.73	20.70	21.22	21.78