

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: P1499183

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499183
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-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

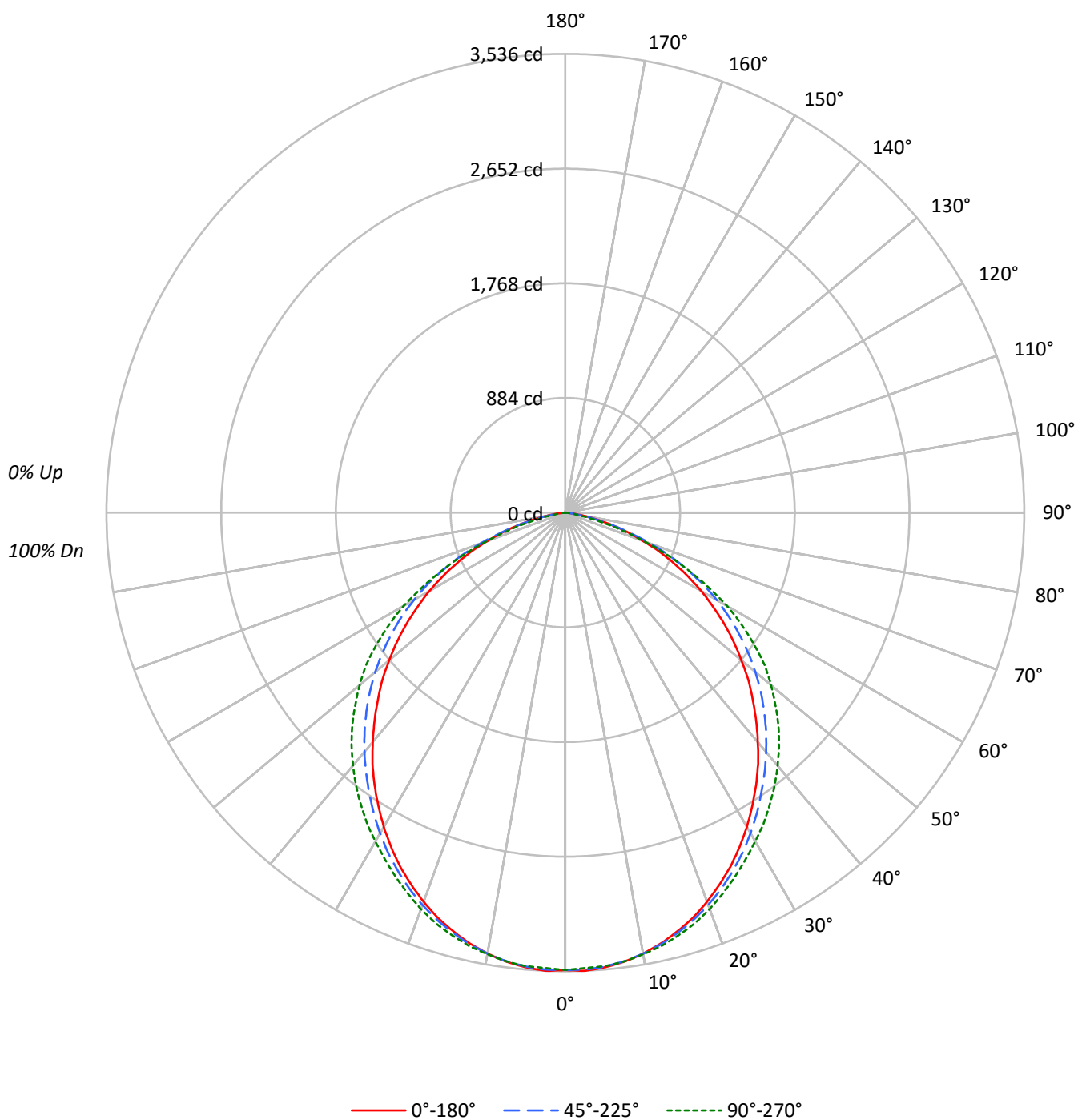
Lumens per Lamp: N/A
Luminaire Lumens: 8901.0 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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	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°	4744	4744	4744
5°	4753	4745	4740
10°	4716	4716	4723
15°	4653	4670	4698
20°	4571	4609	4656
25°	4469	4528	4595
30°	4346	4435	4547
35°	4209	4327	4512
40°	4053	4229	4469
45°	3887	4124	4420
50°	3707	4000	4331
55°	3502	3840	4168
60°	3254	3625	3870
65°	2935	3294	3313
70°	2506	2741	2562
75°	1967	1985	1600
80°	1279	1021	613
85°	593	387	315

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4420 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.0	3.7
10°-20°	944.6	10.6
20°-30°	1403.2	15.8
30°-40°	1652.8	18.6
40°-50°	1674.4	18.8
50°-60°	1457.4	16.4
60°-70°	993.1	11.2
70°-80°	397.0	4.5
80°-90°	45.4	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°	2680.8	30.1
0°-40°	4333.6	48.7
0°-60°	7465.5	83.9
0°-90°	8901.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8901.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3526	3526	3526	3526	3526	
5°	3519	3499	3513	3508	3510	334
15°	3341	3326	3352	3365	3373	942
25°	3010	3011	3050	3075	3095	1385
35°	2562	2574	2634	2704	2747	1602
45°	2043	2068	2167	2269	2323	1577
55°	1493	1525	1637	1740	1777	1334
65°	922	965	1034	1036	1041	914
75°	378	401	382	328	308	408
85°	38	35	25	23	20	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3526.1	3526.1	3526.1	3526.1	3526.1
2.5°	3535.9	3513.2	3526.1	3523.7	3514.2
5°	3519.0	3498.6	3513.2	3508.4	3509.5
7.5°	3491.5	3472.4	3488.0	3486.7	3490.4
10°	3452.0	3433.0	3452.0	3453.1	3456.8
12.5°	3402.8	3386.1	3408.9	3413.7	3422.1
15°	3340.6	3326.3	3352.5	3364.7	3372.9
17.5°	3273.7	3264.1	3290.3	3305.9	3319.2
20°	3192.1	3187.4	3218.6	3234.0	3252.0
22.5°	3103.5	3101.1	3138.4	3157.5	3175.5
25°	3010.1	3011.4	3049.8	3074.9	3095.3
27.5°	2907.1	2909.5	2956.3	2986.2	3011.4
30°	2797.0	2803.1	2854.5	2895.2	2926.4
32.5°	2680.8	2691.7	2746.7	2803.1	2842.5
35°	2562.3	2574.5	2634.3	2703.6	2746.7
37.5°	2440.3	2453.5	2522.9	2604.4	2649.9
40°	2307.4	2327.5	2408.0	2497.7	2544.3
42.5°	2176.7	2199.5	2289.4	2387.6	2437.9
45°	2042.8	2067.9	2167.2	2269.1	2322.8
47.5°	1913.4	1934.8	2041.5	2148.1	2196.0
50°	1771.0	1799.6	1911.0	2017.7	2069.0
52.5°	1634.4	1662.0	1775.8	1884.5	1937.5
55°	1493.1	1525.4	1636.8	1739.8	1776.8
57.5°	1350.7	1387.8	1495.5	1580.5	1612.7
60°	1209.4	1246.5	1347.0	1414.0	1438.1
62.5°	1066.8	1105.2	1193.8	1234.6	1239.3
65°	922.0	965.2	1034.5	1035.8	1040.6
67.5°	784.4	820.1	870.4	856.1	849.0
70°	637.0	676.4	696.8	668.2	651.3
72.5°	506.5	535.1	531.7	489.6	469.5
75°	378.4	401.2	381.9	328.2	307.8
77.5°	262.3	281.3	242.9	192.7	172.5
80°	165.1	173.6	131.8	93.4	79.1
82.5°	88.7	87.3	56.4	46.6	43.1
85°	38.4	34.7	25.1	22.8	20.4
87.5°	13.2	11.9	9.5	8.5	7.1
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	16.33	17.91	16.69	18.22	18.54	17.29	18.87	17.65	19.18	19.50
	3H	17.75	19.17	18.12	19.49	19.85	18.48	19.90	18.85	20.22	20.58
	4H	18.14	19.47	18.54	19.82	20.20	18.69	20.02	19.09	20.37	20.75
	6H	18.31	19.54	18.73	19.91	20.30	18.71	19.94	19.12	20.31	20.70
	8H	18.33	19.50	18.75	19.89	20.29	18.69	19.86	19.11	20.25	20.65
	12H	18.32	19.44	18.75	19.82	20.25	18.66	19.78	19.09	20.16	20.59
4H	2H	16.99	18.32	17.39	18.67	19.04	17.76	19.09	18.16	19.44	19.82
	3H	18.56	19.67	18.97	20.07	20.47	19.11	20.21	19.52	20.61	21.01
	4H	19.04	20.03	19.47	20.45	20.88	19.38	20.37	19.81	20.79	21.22
	6H	19.28	20.14	19.74	20.58	21.04	19.43	20.29	19.89	20.73	21.19
	8H	19.30	20.11	19.77	20.55	21.02	19.40	20.21	19.87	20.65	21.12
	12H	19.30	20.02	19.78	20.50	20.97	19.38	20.10	19.87	20.58	21.05
8H	4H	19.18	19.98	19.64	20.42	20.89	19.49	20.30	19.96	20.74	21.21
	6H	19.45	20.11	19.95	20.60	21.08	19.55	20.21	20.05	20.70	21.18
	8H	19.49	20.08	20.00	20.59	21.08	19.53	20.12	20.04	20.63	21.12
	12H	19.50	20.02	20.01	20.52	21.08	19.51	20.03	20.02	20.53	21.09
12H	4H	19.16	19.88	19.64	20.35	20.82	19.48	20.20	19.96	20.68	21.15
	6H	19.42	20.01	19.93	20.52	21.01	19.53	20.12	20.04	20.63	21.12
	8H	19.49	20.01	19.99	20.50	21.06	19.53	20.05	20.04	20.54	21.11