

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: P1499402

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499402
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-4-120-2STD-HI-35-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

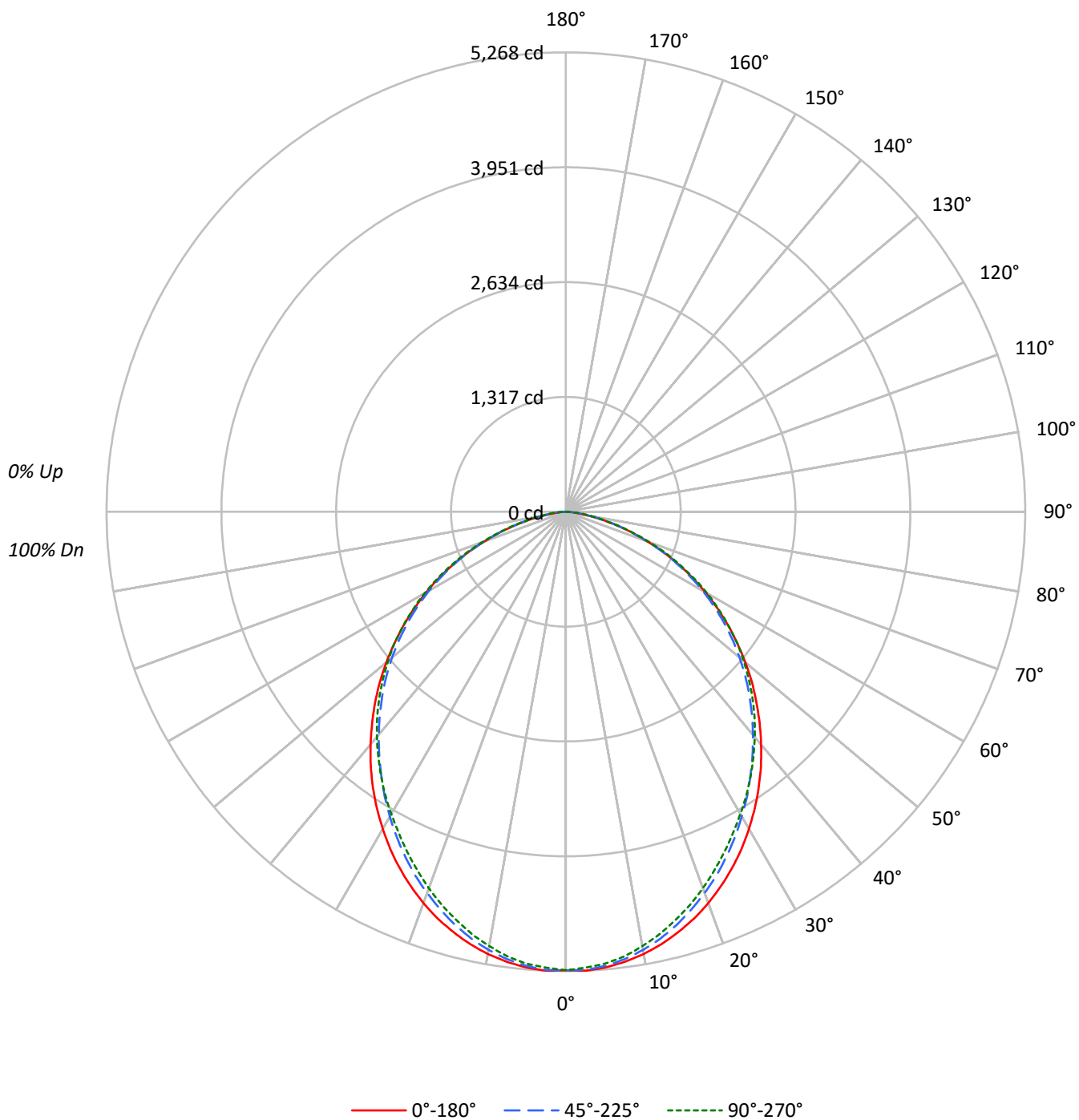
Lumens per Lamp: N/A
Luminaire Lumens: 12739.0 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 157.2
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	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	98	90	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	61
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7074	7074	7074
5°	7084	7060	7026
10°	7035	6971	6911
15°	6950	6832	6753
20°	6838	6662	6578
25°	6695	6474	6388
30°	6526	6271	6218
35°	6336	6061	6069
40°	6118	5863	5919
45°	5883	5661	5762
50°	5626	5444	5569
55°	5331	5189	5336
60°	4975	4874	5041
65°	4528	4464	4605
70°	3915	3923	4019
75°	3125	3222	3251
80°	2126	2305	2387
85°	1105	1595	2067

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5883 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.2	3.9
10°-20°	1381.8	10.8
20°-30°	2016.4	15.8
30°-40°	2333.9	18.3
40°-50°	2325.3	18.3
50°-60°	2000.2	15.7
60°-70°	1400.3	11.0
70°-80°	658.3	5.2
80°-90°	128.8	1.0
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°	3892.4	30.6
0°-40°	6226.2	48.9
0°-60°	10551.7	82.8
0°-90°	12739.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12739.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5258	5258	5258	5258	5258	
5°	5245	5228	5227	5194	5202	498
15°	4989	4953	4905	4846	4848	1406
25°	4510	4452	4361	4300	4303	2076
35°	3857	3781	3690	3675	3695	2411
45°	3092	3022	2975	3002	3028	2385
55°	2272	2216	2212	2254	2275	2029
65°	1422	1390	1402	1430	1446	1407
75°	601	590	620	624	625	647
85°	72	82	103	125	134	105
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5257.8	5257.8	5257.8	5257.8	5257.8
2.5°	5267.9	5252.8	5257.8	5232.3	5232.4
5°	5245.2	5227.6	5227.2	5194.1	5201.7
7.5°	5205.0	5183.8	5174.3	5136.1	5142.6
10°	5149.3	5122.5	5102.4	5055.1	5058.1
12.5°	5077.9	5046.5	5013.4	4958.3	4963.0
15°	4989.1	4953.1	4905.0	4845.7	4847.7
17.5°	4891.0	4850.6	4785.1	4721.7	4729.0
20°	4775.5	4730.1	4652.7	4587.0	4594.0
22.5°	4647.1	4595.0	4513.6	4447.5	4449.9
25°	4509.6	4451.5	4361.0	4299.7	4303.0
27.5°	4360.8	4295.7	4202.0	4145.9	4153.0
30°	4200.6	4131.7	4036.2	3991.2	4002.0
32.5°	4032.0	3960.5	3866.8	3836.8	3854.3
35°	3857.2	3781.0	3690.2	3675.1	3694.7
37.5°	3675.1	3599.9	3515.4	3514.8	3535.2
40°	3483.0	3411.0	3337.9	3347.4	3369.8
42.5°	3289.2	3219.3	3158.6	3178.3	3202.5
45°	3091.6	3021.7	2975.1	3002.4	3028.2
47.5°	2894.5	2824.8	2791.1	2824.5	2847.7
50°	2687.9	2624.0	2600.7	2638.6	2660.4
52.5°	2478.3	2419.0	2408.0	2449.8	2478.3
55°	2272.4	2216.0	2212.0	2254.4	2274.7
57.5°	2060.3	2013.4	2015.0	2054.0	2075.0
60°	1848.9	1805.3	1811.4	1851.4	1873.3
62.5°	1635.2	1596.1	1608.2	1644.6	1660.8
65°	1422.4	1390.4	1402.2	1430.2	1446.5
67.5°	1211.9	1182.8	1200.3	1230.1	1237.6
70°	995.3	973.9	997.2	1018.6	1021.6
72.5°	795.2	776.0	802.3	816.2	815.4
75°	601.2	589.7	619.8	624.0	625.4
77.5°	425.0	425.0	446.1	451.1	453.7
80°	274.4	283.5	297.5	307.7	308.1
82.5°	155.1	165.1	180.1	204.5	214.1
85°	71.6	81.9	103.3	124.8	133.9
87.5°	24.1	31.9	43.6	47.2	44.8
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	17.73	19.31	18.09	19.62	19.94	17.85	19.43	18.22	19.75	20.06
	3H	19.20	20.62	19.57	20.95	21.31	19.36	20.78	19.73	21.11	21.47
	4H	19.63	20.96	20.02	21.31	21.69	19.80	21.14	20.20	21.49	21.87
	6H	19.84	21.07	20.25	21.44	21.83	20.04	21.28	20.45	21.65	22.04
	8H	19.87	21.05	20.29	21.43	21.83	20.10	21.28	20.53	21.67	22.07
	12H	19.87	20.99	20.30	21.38	21.81	20.14	21.27	20.57	21.65	22.08
4H	2H	18.27	19.61	18.67	19.96	20.34	18.37	19.71	18.77	20.06	20.44
	3H	19.92	21.03	20.33	21.43	21.83	20.07	21.18	20.48	21.58	21.98
	4H	20.44	21.44	20.87	21.85	22.29	20.61	21.61	21.04	22.03	22.47
	6H	20.73	21.60	21.18	22.04	22.50	20.94	21.81	21.39	22.25	22.71
	8H	20.77	21.59	21.24	22.03	22.50	21.02	21.84	21.48	22.28	22.75
	12H	20.79	21.52	21.27	21.99	22.46	21.09	21.82	21.57	22.29	22.76
8H	4H	20.63	21.45	21.09	21.89	22.36	20.79	21.61	21.25	22.05	22.51
	6H	20.98	21.65	21.48	22.14	22.62	21.18	21.86	21.68	22.35	22.82
	8H	21.06	21.66	21.57	22.17	22.65	21.31	21.91	21.82	22.42	22.91
	12H	21.10	21.63	21.60	22.12	22.68	21.42	21.95	21.93	22.44	23.00
12H	4H	20.63	21.36	21.12	21.84	22.31	20.79	21.52	21.27	22.00	22.47
	6H	20.99	21.59	21.50	22.10	22.59	21.18	21.79	21.69	22.29	22.78
	8H	21.10	21.63	21.61	22.12	22.68	21.35	21.88	21.85	22.37	22.93