

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: P1499219

Luminaire Tested: MAE-G-4-120-2HI-HI-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499219
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-HI-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

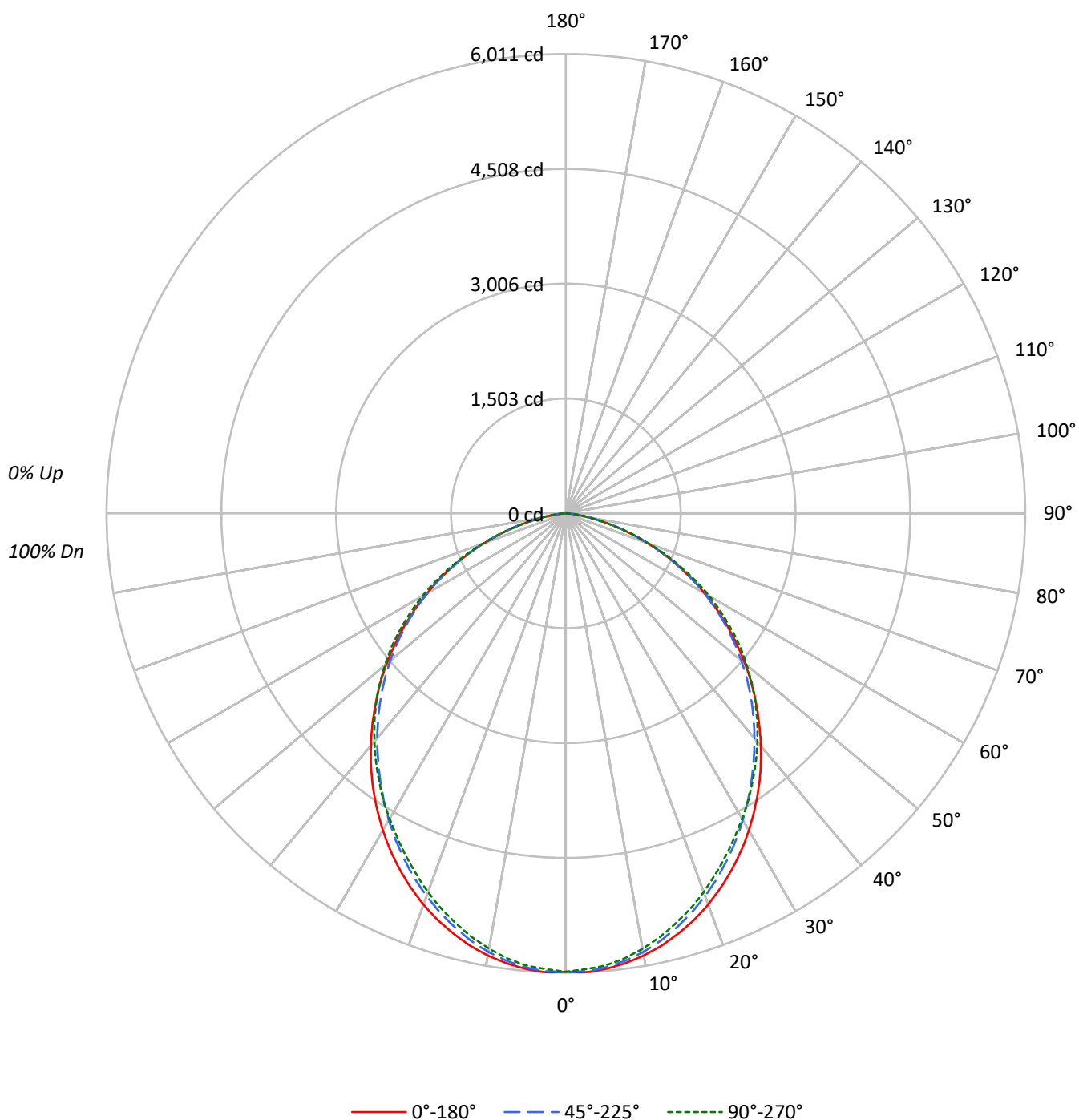
Lumens per Lamp: N/A
Luminaire Lumens: 14601.0 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 177.5
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	81	98	91	85	80	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		67	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	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8071	8071	8071
5°	8083	8057	8021
10°	8026	7961	7901
15°	7927	7812	7736
20°	7798	7627	7551
25°	7634	7421	7346
30°	7440	7197	7164
35°	7221	6964	7007
40°	6970	6745	6846
45°	6701	6520	6678
50°	6407	6276	6465
55°	6068	5987	6199
60°	5661	5628	5843
65°	5147	5149	5296
70°	4445	4497	4560
75°	3542	3644	3601
80°	2398	2531	2538
85°	1233	1690	2158

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6701 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.1	3.9
10°-20°	1579.8	10.8
20°-30°	2310.0	15.8
30°-40°	2679.1	18.3
40°-50°	2674.5	18.3
50°-60°	2303.8	15.8
60°-70°	1607.7	11.0
70°-80°	742.7	5.1
80°-90°	139.2	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°	4454.0	30.5
0°-40°	7133.1	48.9
0°-60°	12111.4	82.9
0°-90°	14601.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14601.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5998	5998	5998	5998	5998	
5°	5985	5963	5965	5931	5938	568
15°	5691	5652	5608	5550	5554	1604
25°	5142	5084	4999	4941	4948	2367
35°	4396	4321	4240	4238	4266	2748
45°	3522	3455	3426	3473	3510	2717
55°	2587	2536	2552	2615	2642	2310
65°	1617	1592	1617	1646	1664	1600
75°	681	674	701	695	693	733
85°	80	90	110	131	140	118
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5998.5	5998.5	5998.5	5998.5	5998.5
2.5°	6010.7	5991.1	5998.5	5972.3	5970.6
5°	5984.6	5962.9	5965.0	5930.6	5938.5
7.5°	5938.5	5913.4	5906.7	5867.8	5875.0
10°	5874.7	5843.8	5827.0	5779.2	5782.9
12.5°	5792.8	5757.9	5728.6	5673.4	5679.8
15°	5691.1	5651.8	5607.9	5550.0	5553.6
17.5°	5579.0	5536.2	5474.5	5413.2	5423.1
20°	5446.4	5399.4	5326.7	5262.8	5273.4
22.5°	5299.5	5246.1	5170.4	5107.0	5112.7
25°	5142.4	5083.6	4998.9	4941.3	4948.5
27.5°	4971.9	4906.4	4820.0	4768.6	4780.7
30°	4788.7	4719.9	4632.5	4594.4	4611.3
32.5°	4595.8	4525.3	4440.5	4420.4	4445.7
35°	4396.2	4321.0	4240.0	4237.7	4265.7
37.5°	4188.3	4114.4	4041.7	4056.5	4085.6
40°	3968.4	3899.1	3840.0	3866.4	3897.9
42.5°	3747.2	3680.5	3635.7	3674.1	3708.2
45°	3521.5	3455.2	3426.5	3473.3	3509.5
47.5°	3297.1	3230.3	3216.2	3270.1	3302.6
50°	3060.8	3001.3	2998.5	3056.9	3088.7
52.5°	2822.3	2767.3	2777.4	2840.2	2879.1
55°	2586.8	2535.5	2552.4	2614.8	2642.4
57.5°	2344.7	2304.1	2325.9	2381.5	2408.8
60°	2103.7	2066.4	2091.5	2144.6	2171.3
62.5°	1860.1	1827.6	1856.4	1901.0	1918.4
65°	1616.8	1592.4	1617.4	1646.1	1663.5
67.5°	1377.3	1354.5	1381.6	1409.3	1415.6
70°	1129.9	1115.5	1143.0	1159.4	1159.2
72.5°	902.1	888.0	914.1	920.3	915.7
75°	681.4	673.9	700.9	695.0	692.6
77.5°	480.6	484.2	498.4	494.0	492.9
80°	309.5	320.4	326.6	329.8	327.6
82.5°	174.0	184.0	193.4	216.3	225.4
85°	79.9	89.6	109.5	130.9	139.8
87.5°	26.9	34.7	46.1	49.5	46.9
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	18.18	19.77	18.55	20.08	20.39	18.41	19.99	18.77	20.30	20.62
	3H	19.65	21.07	20.02	21.40	21.76	19.87	21.30	20.25	21.62	21.98
	4H	20.07	21.41	20.47	21.76	22.13	20.29	21.63	20.69	21.97	22.35
	6H	20.28	21.52	20.69	21.88	22.27	20.50	21.73	20.91	22.10	22.49
	8H	20.31	21.49	20.73	21.87	22.27	20.54	21.72	20.97	22.11	22.51
	12H	20.31	21.43	20.73	21.82	22.24	20.57	21.70	21.00	22.08	22.51
4H	2H	18.74	20.08	19.14	20.43	20.80	18.92	20.26	19.32	20.61	20.99
	3H	20.38	21.49	20.79	21.89	22.29	20.58	21.69	20.99	22.09	22.49
	4H	20.89	21.89	21.32	22.31	22.75	21.08	22.08	21.51	22.50	22.94
	6H	21.18	22.05	21.63	22.49	22.95	21.37	22.24	21.83	22.68	23.14
	8H	21.22	22.03	21.68	22.48	22.94	21.44	22.25	21.90	22.69	23.16
	12H	21.23	21.96	21.72	22.44	22.91	21.49	22.22	21.97	22.69	23.16
8H	4H	21.08	21.89	21.54	22.34	22.80	21.25	22.07	21.72	22.51	22.98
	6H	21.42	22.09	21.92	22.58	23.06	21.60	22.27	22.09	22.76	23.24
	8H	21.49	22.09	22.00	22.60	23.09	21.70	22.30	22.21	22.81	23.30
	12H	21.53	22.06	22.04	22.55	23.11	21.79	22.32	22.30	22.81	23.38
12H	4H	21.08	21.81	21.56	22.29	22.76	21.25	21.98	21.73	22.46	22.93
	6H	21.42	22.03	21.93	22.53	23.02	21.60	22.20	22.11	22.71	23.19
	8H	21.53	22.06	22.04	22.55	23.11	21.74	22.27	22.24	22.76	23.32