

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: P1499195

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499195
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-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

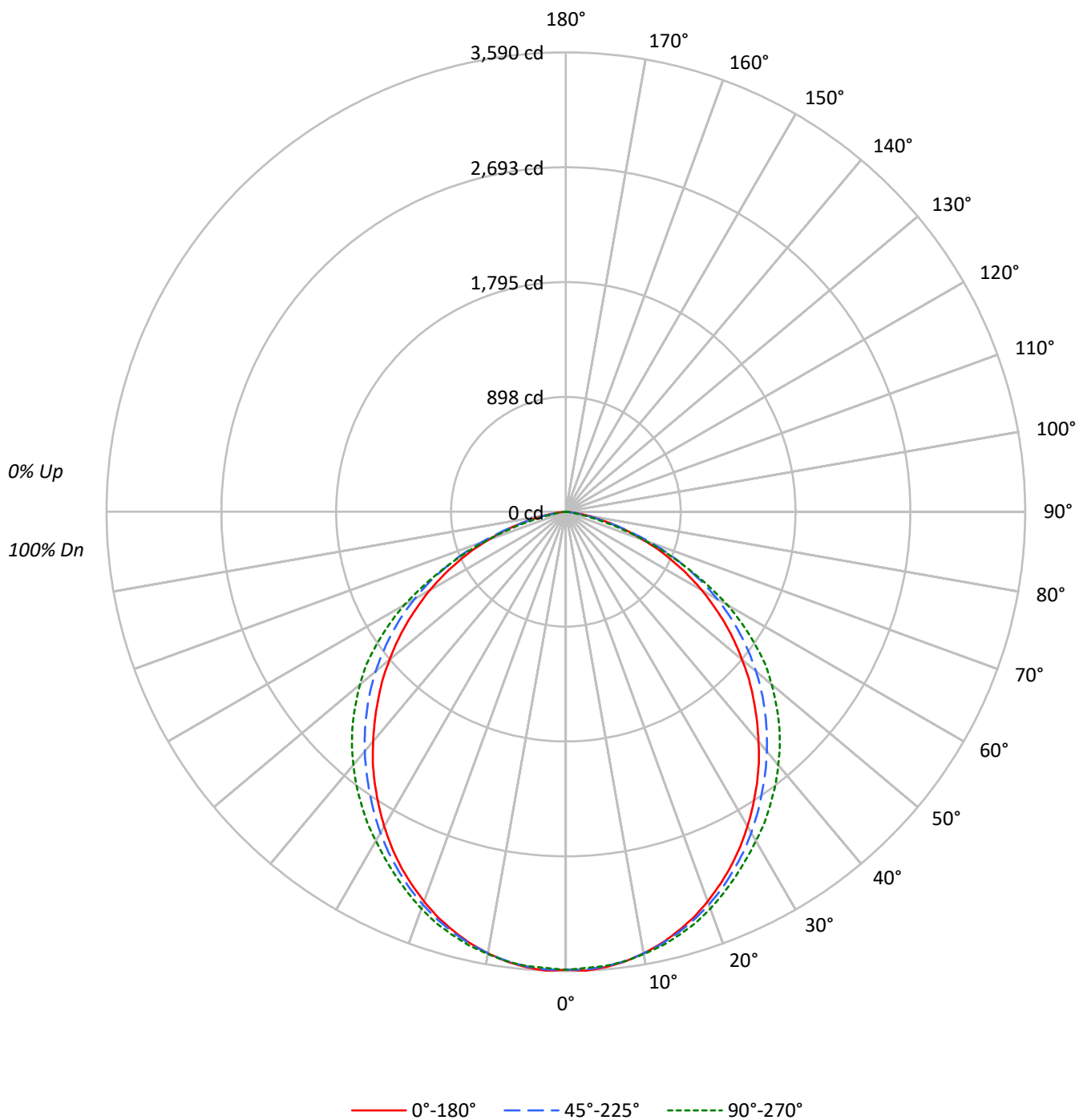
Lumens per Lamp: N/A
Luminaire Lumens: 9036.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	4816	4816	4816
5°	4825	4817	4812
10°	4788	4788	4794
15°	4724	4741	4770
20°	4640	4678	4727
25°	4536	4596	4665
30°	4412	4502	4616
35°	4273	4392	4580
40°	4114	4294	4537
45°	3946	4186	4487
50°	3763	4061	4397
55°	3556	3898	4231
60°	3304	3680	3929
65°	2980	3344	3363
70°	2544	2783	2601
75°	1997	2015	1624
80°	1299	1037	622
85°	602	394	320

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4487 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.1	3.7
10°-20°	958.9	10.6
20°-30°	1424.5	15.8
30°-40°	1677.9	18.6
40°-50°	1699.8	18.8
50°-60°	1479.5	16.4
60°-70°	1008.2	11.2
70°-80°	403.0	4.5
80°-90°	46.1	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°	2721.5	30.1
0°-40°	4399.3	48.7
0°-60°	7578.7	83.9
0°-90°	9036.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9036.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3580	3580	3580	3580	3580	
5°	3572	3552	3566	3562	3563	339
15°	3391	3377	3403	3416	3424	956
25°	3056	3057	3096	3122	3142	1406
35°	2601	2614	2674	2745	2788	1626
45°	2074	2099	2200	2304	2358	1600
55°	1516	1548	1662	1766	1804	1354
65°	936	980	1050	1052	1056	928
75°	384	407	388	333	312	414
85°	39	35	26	23	21	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3579.6	3579.6	3579.6	3579.6	3579.6
2.5°	3589.5	3566.4	3579.6	3577.2	3567.5
5°	3572.4	3551.7	3566.4	3561.6	3562.7
7.5°	3544.4	3525.1	3540.9	3539.6	3543.3
10°	3504.4	3485.0	3504.4	3505.5	3509.2
12.5°	3454.4	3437.5	3460.6	3465.4	3474.0
15°	3391.3	3376.8	3403.4	3415.7	3424.1
17.5°	3323.3	3313.6	3340.2	3356.1	3369.5
20°	3240.6	3235.7	3267.4	3283.0	3301.3
22.5°	3150.6	3148.1	3186.0	3205.4	3223.6
25°	3055.7	3057.1	3096.0	3121.5	3142.2
27.5°	2951.2	2953.6	3001.2	3031.5	3057.1
30°	2839.5	2845.6	2897.7	2939.1	2970.8
32.5°	2721.5	2732.5	2788.4	2845.6	2885.7
35°	2601.2	2613.5	2674.2	2744.6	2788.4
37.5°	2477.3	2490.7	2561.1	2643.9	2690.1
40°	2342.4	2362.9	2444.5	2535.6	2582.9
42.5°	2209.7	2232.8	2324.2	2423.8	2474.9
45°	2073.8	2099.3	2200.0	2303.5	2358.0
47.5°	1942.4	1964.2	2072.4	2180.7	2229.3
50°	1797.9	1826.9	1940.0	2048.3	2100.4
52.5°	1659.2	1687.2	1802.7	1913.1	1966.8
55°	1515.8	1548.5	1661.7	1766.2	1803.8
57.5°	1371.2	1408.8	1518.2	1604.4	1637.2
60°	1227.8	1265.4	1367.5	1435.4	1459.9
62.5°	1083.0	1121.9	1211.9	1253.3	1258.1
65°	936.0	979.8	1050.2	1051.5	1056.4
67.5°	796.3	832.6	883.6	869.1	861.9
70°	646.7	686.7	707.4	678.4	661.2
72.5°	514.2	543.2	539.7	497.0	476.6
75°	384.2	407.3	387.7	333.1	312.4
77.5°	266.2	285.6	246.6	195.6	175.2
80°	167.6	176.2	133.8	94.8	80.3
82.5°	90.0	88.7	57.2	47.3	43.8
85°	39.0	35.2	25.5	23.1	20.7
87.5°	13.4	12.1	9.7	8.6	7.3
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	16.38	17.96	16.74	18.27	18.59	17.34	18.92	17.70	19.23	19.55
	3H	17.80	19.22	18.18	19.55	19.91	18.53	19.95	18.91	20.28	20.64
	4H	18.19	19.52	18.59	19.87	20.25	18.74	20.08	19.14	20.42	20.80
	6H	18.37	19.60	18.78	19.96	20.35	18.76	19.99	19.17	20.36	20.75
	8H	18.38	19.55	18.80	19.94	20.34	18.74	19.91	19.16	20.30	20.70
	12H	18.37	19.49	18.80	19.87	20.30	18.71	19.83	19.14	20.22	20.65
4H	2H	17.04	18.37	17.44	18.72	19.10	17.81	19.15	18.21	19.49	19.87
	3H	18.62	19.72	19.03	20.12	20.52	19.16	20.27	19.57	20.67	21.07
	4H	19.09	20.08	19.52	20.50	20.94	19.43	20.42	19.86	20.84	21.27
	6H	19.33	20.19	19.79	20.64	21.09	19.48	20.34	19.94	20.78	21.24
	8H	19.35	20.16	19.82	20.60	21.07	19.46	20.26	19.92	20.70	21.17
	12H	19.35	20.07	19.84	20.55	21.02	19.44	20.15	19.92	20.63	21.10
8H	4H	19.23	20.03	19.69	20.48	20.94	19.54	20.35	20.01	20.79	21.26
	6H	19.50	20.17	20.00	20.66	21.13	19.60	20.27	20.10	20.76	21.23
	8H	19.54	20.13	20.06	20.64	21.13	19.58	20.17	20.09	20.68	21.17
	12H	19.56	20.08	20.06	20.57	21.13	19.57	20.09	20.07	20.58	21.14
12H	4H	19.21	19.93	19.69	20.41	20.88	19.53	20.25	20.02	20.73	21.20
	6H	19.47	20.07	19.99	20.58	21.06	19.58	20.17	20.09	20.68	21.17
	8H	19.54	20.06	20.05	20.55	21.11	19.58	20.10	20.09	20.59	21.16