

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: P1499228

Luminaire Tested: MAE-G-4-120-2HI-LO-30-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499228
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-LO-30-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

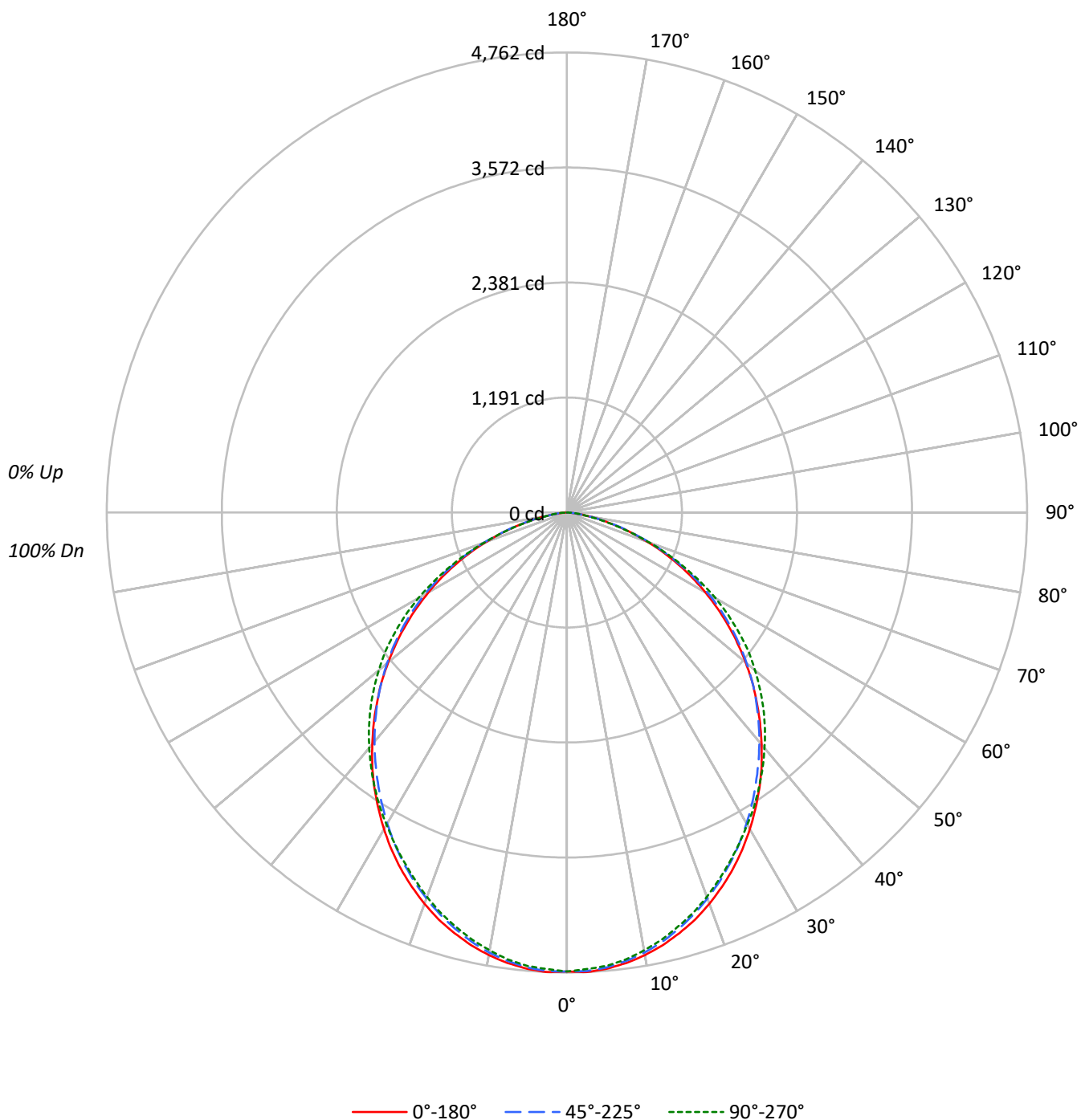
Lumens per Lamp: N/A
Luminaire Lumens: 11683.0 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.8
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	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	93	90	91	89	88	88	88	86
2	100	92	86	81	98	91	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	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	53
5	78	65	56	50	76	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	34	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	54	41	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°	6392	6392	6392
5°	6402	6384	6362
10°	6356	6319	6287
15°	6276	6216	6183
20°	6171	6087	6062
25°	6039	5939	5922
30°	5882	5777	5799
35°	5706	5603	5696
40°	5504	5441	5588
45°	5288	5273	5474
50°	5052	5087	5319
55°	4782	4862	5105
60°	4456	4576	4790
65°	4043	4178	4269
70°	3481	3598	3567
75°	2763	2827	2659
80°	1851	1830	1682
85°	926	1113	1354

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5474 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.3	3.8
10°-20°	1257.2	10.8
20°-30°	1846.5	15.8
30°-40°	2151.0	18.4
40°-50°	2156.4	18.5
50°-60°	1863.2	15.9
60°-70°	1291.3	11.1
70°-80°	573.4	4.9
80°-90°	96.7	0.8
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°	3551.0	30.4
0°-40°	5702.0	48.8
0°-60°	9721.6	83.2
0°-90°	11683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11683.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4751	4751	4751	4751	4751	
5°	4740	4720	4727	4706	4710	450
15°	4506	4478	4462	4434	4439	1270
25°	4068	4035	4001	3977	3989	1872
35°	3474	3435	3411	3436	3468	2171
45°	2779	2750	2771	2836	2877	2144
55°	2039	2021	2072	2147	2176	1821
65°	1270	1272	1312	1329	1341	1257
75°	531	536	544	520	511	572
85°	60	64	72	83	88	90
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4751.0	4751.0	4751.0	4751.0	4751.0
2.5°	4761.6	4741.9	4751.0	4735.0	4730.5
5°	4740.3	4720.2	4726.9	4705.5	4710.4
7.5°	4703.6	4682.1	4684.1	4661.3	4666.9
10°	4652.3	4627.6	4625.0	4598.1	4601.6
12.5°	4587.2	4560.8	4552.6	4522.8	4529.6
15°	4505.7	4477.8	4462.5	4433.9	4439.0
17.5°	4416.5	4388.4	4362.9	4333.6	4344.2
20°	4310.1	4281.4	4251.5	4220.7	4233.4
22.5°	4192.8	4161.5	4132.1	4102.9	4112.8
25°	4068.0	4034.9	4000.7	3977.2	3988.9
27.5°	3932.1	3895.4	3863.5	3845.2	3861.4
30°	3786.1	3748.9	3718.1	3711.5	3732.8
32.5°	3632.2	3595.9	3567.9	3577.5	3606.6
35°	3473.7	3435.2	3411.1	3435.7	3467.9
37.5°	3309.1	3271.8	3255.9	3294.9	3328.6
40°	3133.6	3101.4	3097.7	3146.2	3181.7
42.5°	2958.1	2928.4	2936.4	2995.1	3033.4
45°	2778.9	2750.4	2771.0	2835.8	2876.7
47.5°	2602.1	2571.9	2603.6	2674.3	2710.8
50°	2413.6	2390.2	2430.3	2503.5	2540.9
52.5°	2226.2	2204.8	2253.2	2329.8	2371.8
55°	2038.6	2021.3	2072.5	2146.6	2176.3
57.5°	1846.7	1837.3	1890.0	1953.6	1981.3
60°	1656.0	1648.5	1700.4	1755.8	1780.1
62.5°	1463.3	1459.0	1508.6	1549.3	1561.1
65°	1270.0	1272.1	1312.3	1329.2	1341.0
67.5°	1081.4	1081.7	1116.0	1126.5	1127.4
70°	884.8	891.2	914.6	913.3	906.8
72.5°	705.6	708.2	721.8	709.7	699.6
75°	531.4	535.6	543.8	520.5	511.4
77.5°	373.2	382.2	376.0	354.7	346.6
80°	238.9	248.3	236.2	223.7	217.1
82.5°	132.7	138.0	131.8	141.3	145.1
85°	60.0	64.3	72.1	83.4	87.7
87.5°	20.4	24.3	29.9	31.5	29.5
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	17.37	18.95	17.73	19.27	19.58	17.81	19.39	18.17	19.70	20.02
	3H	18.82	20.24	19.20	20.57	20.93	19.19	20.61	19.57	20.94	21.30
	4H	19.24	20.57	19.64	20.92	21.30	19.54	20.88	19.94	21.23	21.60
	6H	19.44	20.67	19.85	21.04	21.43	19.68	20.92	20.09	21.28	21.68
	8H	19.46	20.64	19.88	21.02	21.42	19.70	20.88	20.13	21.27	21.67
	12H	19.45	20.58	19.88	20.96	21.39	19.71	20.84	20.14	21.22	21.65
4H	2H	17.96	19.29	18.35	19.64	20.02	18.31	19.65	18.71	20.00	20.37
	3H	19.58	20.69	19.99	21.09	21.49	19.87	20.98	20.28	21.38	21.78
	4H	20.08	21.08	20.51	21.49	21.93	20.30	21.30	20.74	21.72	22.15
	6H	20.35	21.22	20.81	21.66	22.12	20.51	21.38	20.97	21.82	22.28
	8H	20.39	21.20	20.85	21.64	22.11	20.55	21.36	21.01	21.80	22.27
	12H	20.40	21.12	20.88	21.60	22.07	20.57	21.29	21.05	21.77	22.24
8H	4H	20.25	21.06	20.71	21.51	21.97	20.46	21.27	20.92	21.71	22.18
	6H	20.58	21.24	21.07	21.73	22.21	20.71	21.38	21.20	21.87	22.34
	8H	20.64	21.23	21.15	21.74	22.23	20.77	21.37	21.28	21.87	22.36
	12H	20.67	21.19	21.17	21.68	22.25	20.82	21.35	21.33	21.84	22.40
12H	4H	20.25	20.97	20.73	21.45	21.92	20.45	21.18	20.93	21.65	22.13
	6H	20.57	21.17	21.08	21.67	22.16	20.70	21.30	21.21	21.81	22.29
	8H	20.66	21.19	21.17	21.68	22.24	20.79	21.32	21.30	21.81	22.37