

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: P1499588

Luminaire Tested: MAE-G-4-120-3LO-HI-30-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-3LO-HI-30-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

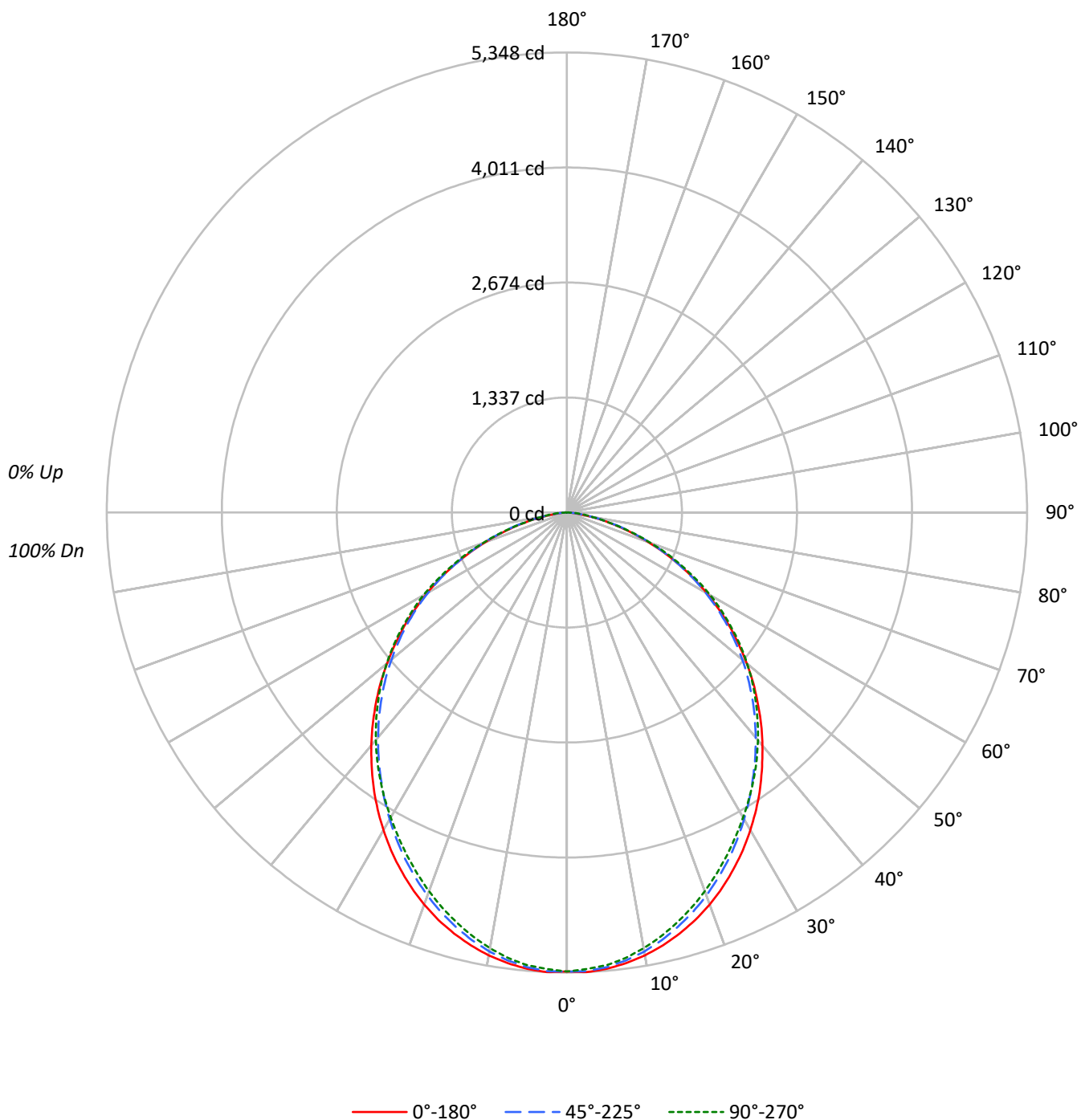
Lumens per Lamp: N/A
Luminaire Lumens: 12992.0 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 160.9
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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	98	90	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	53		
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	34	46	39	34	44	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7179	7179	7179
5°	7192	7166	7135
10°	7143	7080	7026
15°	7058	6946	6877
20°	6945	6784	6708
25°	6796	6601	6528
30°	6625	6398	6361
35°	6431	6194	6216
40°	6211	5995	6067
45°	5972	5793	5906
50°	5711	5571	5722
55°	5414	5317	5481
60°	5049	5000	5189
65°	4596	4587	4720
70°	3971	4037	4098
75°	3167	3301	3246
80°	2153	2315	2338
85°	1129	1579	2015

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5972 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.8	3.9
10°-20°	1404.9	10.8
20°-30°	2053.7	15.8
30°-40°	2380.4	18.3
40°-50°	2375.3	18.3
50°-60°	2046.2	15.8
60°-70°	1433.1	11.0
70°-80°	668.6	5.1
80°-90°	128.0	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°	3960.3	30.5
0°-40°	6340.7	48.8
0°-60°	10762.2	82.8
0°-90°	12992.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12992.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5336	5336	5336	5336	5336	
5°	5325	5305	5305	5274	5283	505
15°	5067	5031	4986	4932	4937	1428
25°	4578	4522	4446	4388	4397	2108
35°	3915	3843	3771	3759	3784	2446
45°	3139	3076	3045	3076	3104	2421
55°	2308	2257	2267	2317	2337	2060
65°	1444	1416	1441	1474	1482	1426
75°	609	602	635	633	624	654
85°	73	82	102	122	130	107
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5335.9	5335.9	5335.9	5335.9	5335.9
2.5°	5348.0	5330.8	5335.9	5311.3	5311.1
5°	5324.6	5305.2	5305.4	5274.2	5282.6
7.5°	5283.5	5261.2	5252.6	5216.7	5223.4
10°	5228.0	5200.0	5181.8	5138.6	5142.8
12.5°	5154.0	5123.0	5092.8	5042.0	5048.4
15°	5066.7	5030.7	4986.3	4932.4	4937.1
17.5°	4965.8	4924.0	4869.3	4808.2	4817.5
20°	4850.2	4802.9	4738.0	4673.8	4685.0
22.5°	4720.3	4668.2	4596.0	4534.5	4543.9
25°	4577.5	4521.7	4446.4	4387.6	4397.4
27.5°	4427.1	4364.6	4285.4	4235.4	4246.6
30°	4264.3	4198.0	4117.9	4076.5	4094.3
32.5°	4092.5	4024.4	3947.3	3920.1	3941.5
35°	3915.4	3842.9	3770.8	3758.8	3784.4
37.5°	3725.3	3659.6	3593.6	3596.9	3622.5
40°	3536.4	3468.2	3413.1	3426.5	3454.2
42.5°	3340.7	3276.7	3230.8	3256.1	3281.0
45°	3138.7	3076.3	3044.6	3076.3	3103.6
47.5°	2938.5	2876.6	2856.3	2893.8	2924.7
50°	2728.3	2672.0	2661.6	2707.3	2733.6
52.5°	2516.4	2463.0	2465.3	2515.4	2542.5
55°	2308.1	2256.7	2266.7	2316.9	2336.6
57.5°	2091.7	2051.4	2066.1	2112.5	2134.9
60°	1876.3	1838.9	1857.9	1905.6	1928.2
62.5°	1660.1	1628.4	1650.7	1694.8	1706.6
65°	1443.6	1415.6	1440.8	1473.5	1482.5
67.5°	1223.8	1204.3	1233.5	1260.2	1264.6
70°	1009.3	989.2	1026.2	1045.4	1041.7
72.5°	800.8	789.9	822.8	834.8	824.8
75°	609.2	602.5	634.9	632.7	624.4
77.5°	431.6	429.6	455.5	450.5	448.2
80°	277.9	285.6	298.8	303.8	301.8
82.5°	156.9	168.1	179.0	200.7	209.7
85°	73.1	82.3	102.3	121.9	130.5
87.5°	24.7	31.8	42.6	46.2	43.7
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	17.78	19.37	18.15	19.68	19.99	17.98	19.56	18.34	19.88	20.19
	3H	19.24	20.67	19.62	20.99	21.36	19.47	20.90	19.85	21.22	21.58
	4H	19.67	21.01	20.07	21.36	21.73	19.90	21.24	20.30	21.59	21.96
	6H	19.88	21.12	20.29	21.48	21.87	20.12	21.36	20.53	21.72	22.11
	8H	19.91	21.09	20.33	21.48	21.88	20.17	21.35	20.60	21.74	22.14
	12H	19.91	21.04	20.34	21.42	21.85	20.20	21.33	20.63	21.71	22.14
4H	2H	18.34	19.68	18.74	20.03	20.40	18.50	19.84	18.90	20.19	20.56
	3H	19.98	21.09	20.39	21.49	21.89	20.18	21.30	20.59	21.70	22.10
	4H	20.49	21.50	20.92	21.91	22.35	20.71	21.71	21.14	22.12	22.56
	6H	20.78	21.65	21.24	22.09	22.55	21.01	21.88	21.47	22.32	22.78
	8H	20.83	21.64	21.29	22.08	22.55	21.09	21.90	21.55	22.34	22.81
	12H	20.84	21.57	21.32	22.05	22.52	21.14	21.87	21.62	22.35	22.82
8H	4H	20.69	21.50	21.15	21.95	22.41	20.88	21.70	21.35	22.14	22.61
	6H	21.03	21.71	21.53	22.20	22.67	21.25	21.92	21.74	22.41	22.89
	8H	21.11	21.71	21.62	22.22	22.71	21.36	21.96	21.87	22.47	22.96
	12H	21.15	21.68	21.66	22.17	22.73	21.46	21.99	21.97	22.48	23.05
12H	4H	20.69	21.42	21.17	21.90	22.37	20.88	21.61	21.36	22.09	22.56
	6H	21.04	21.64	21.55	22.15	22.64	21.25	21.85	21.76	22.36	22.85
	8H	21.15	21.68	21.65	22.17	22.73	21.40	21.93	21.91	22.42	22.98