

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: P1499744

Luminaire Tested: MAE-G-4-120-3STD-STD-40-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499744
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-4-120-3STD-STD-40-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

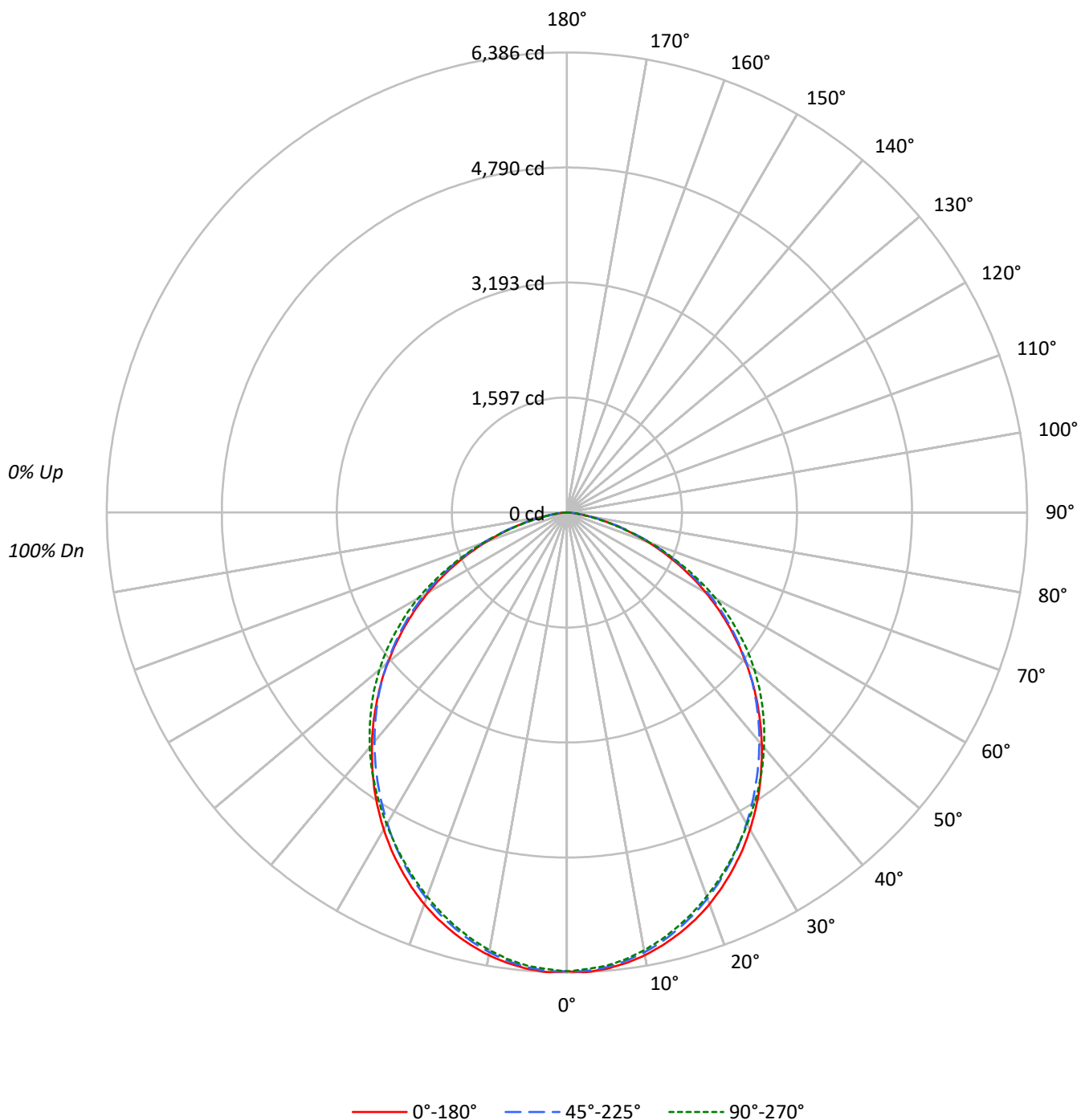
Lumens per Lamp: N/A
Luminaire Lumens: 15680.0 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 170.9
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
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	44	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	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8570	8570	8570
5°	8586	8559	8531
10°	8526	8470	8429
15°	8423	8332	8289
20°	8285	8165	8122
25°	8103	7968	7939
30°	7895	7745	7770
35°	7660	7518	7626
40°	7393	7296	7475
45°	7105	7070	7306
50°	6789	6814	7107
55°	6433	6517	6816
60°	5991	6136	6425
65°	5442	5620	5743
70°	4687	4880	4838
75°	3723	3871	3609
80°	2505	2530	2341
85°	1286	1579	1916

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7306 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.7	3.8
10°-20°	1685.4	10.7
20°-30°	2475.5	15.8
30°-40°	2882.5	18.4
40°-50°	2889.3	18.4
50°-60°	2497.2	15.9
60°-70°	1737.2	11.1
70°-80°	778.9	5.0
80°-90°	134.4	0.9
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°	4760.6	30.4
0°-40°	7643.1	48.7
0°-60°	13029.6	83.1
0°-90°	15680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15680.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6370	6370	6370	6370	6370	
5°	6357	6330	6337	6308	6316	603
15°	6047	6008	5982	5942	5951	1704
25°	5458	5410	5367	5327	5348	2513
35°	4663	4606	4577	4598	4643	2913
45°	3734	3693	3716	3791	3840	2881
55°	2742	2713	2778	2872	2906	2448
65°	1709	1705	1765	1798	1804	1689
75°	716	723	745	716	694	769
85°	83	89	102	118	124	123
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6369.7	6369.7	6369.7	6369.7	6369.7
2.5°	6385.7	6359.2	6369.7	6347.0	6342.4
5°	6357.0	6329.7	6336.7	6307.5	6316.0
7.5°	6307.7	6278.7	6278.3	6246.6	6254.4
10°	6240.5	6206.7	6199.5	6163.5	6169.5
12.5°	6151.5	6116.5	6100.8	6059.8	6070.0
15°	6046.7	6008.2	5981.8	5941.5	5950.8
17.5°	5925.3	5883.0	5851.2	5804.2	5819.5
20°	5786.0	5740.6	5702.5	5652.5	5672.6
22.5°	5630.0	5582.2	5538.5	5493.9	5514.2
25°	5458.1	5410.0	5367.3	5326.8	5347.9
27.5°	5277.4	5223.7	5180.9	5152.2	5175.6
30°	5081.9	5026.4	4985.2	4967.7	5001.1
32.5°	4875.4	4820.7	4784.4	4786.1	4824.5
35°	4663.3	4605.7	4577.0	4598.2	4643.1
37.5°	4435.3	4387.1	4368.0	4408.7	4454.3
40°	4209.4	4159.1	4154.2	4207.6	4255.6
42.5°	3975.6	3931.4	3937.3	4005.7	4050.5
45°	3733.7	3692.7	3715.5	3790.7	3839.5
47.5°	3496.0	3453.9	3489.3	3571.6	3624.3
50°	3243.2	3209.1	3255.1	3347.1	3395.4
52.5°	2992.2	2959.5	3018.1	3115.1	3161.7
55°	2742.3	2712.8	2778.0	2872.1	2905.5
57.5°	2483.7	2467.2	2534.4	2617.0	2651.8
60°	2226.4	2212.4	2280.2	2356.3	2387.6
62.5°	1968.8	1960.9	2025.4	2086.7	2097.0
65°	1709.3	1705.1	1765.2	1797.7	1803.9
67.5°	1447.0	1450.3	1504.6	1520.9	1519.9
70°	1191.3	1191.3	1240.5	1244.2	1229.9
72.5°	942.9	950.0	981.5	973.0	950.2
75°	716.2	722.7	744.6	715.7	694.2
77.5°	505.3	510.8	519.8	488.1	474.6
80°	323.3	333.2	326.5	311.3	302.1
82.5°	180.5	190.7	184.8	198.4	204.7
85°	83.3	89.2	102.3	117.8	124.1
87.5°	28.4	33.7	41.9	44.7	41.7
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	18.40	19.98	18.76	20.29	20.61	18.82	20.40	19.18	20.71	21.03
	3H	19.84	21.27	20.22	21.59	21.95	20.22	21.65	20.60	21.97	22.33
	4H	20.26	21.60	20.66	21.95	22.32	20.58	21.92	20.98	22.27	22.65
	6H	20.46	21.70	20.87	22.06	22.45	20.74	21.97	21.15	22.34	22.73
	8H	20.48	21.66	20.91	22.05	22.45	20.76	21.94	21.19	22.33	22.73
	12H	20.48	21.61	20.91	21.99	22.42	20.77	21.90	21.20	22.28	22.71
4H	2H	18.98	20.32	19.38	20.67	21.05	19.32	20.66	19.72	21.01	21.39
	3H	20.60	21.72	21.01	22.11	22.51	20.91	22.03	21.32	22.42	22.82
	4H	21.11	22.11	21.54	22.52	22.96	21.36	22.36	21.79	22.78	23.21
	6H	21.38	22.25	21.84	22.69	23.15	21.58	22.45	22.04	22.89	23.35
	8H	21.42	22.23	21.88	22.68	23.14	21.62	22.43	22.08	22.88	23.34
	12H	21.43	22.16	21.91	22.63	23.10	21.65	22.38	22.13	22.85	23.32
8H	4H	21.29	22.10	21.75	22.54	23.01	21.52	22.33	21.98	22.78	23.24
	6H	21.61	22.28	22.11	22.77	23.25	21.79	22.46	22.28	22.95	23.42
	8H	21.68	22.28	22.19	22.79	23.27	21.85	22.45	22.36	22.96	23.45
	12H	21.71	22.24	22.22	22.73	23.29	21.91	22.44	22.42	22.93	23.49
12H	4H	21.28	22.01	21.77	22.49	22.96	21.52	22.24	22.00	22.72	23.19
	6H	21.61	22.21	22.12	22.72	23.20	21.78	22.38	22.29	22.89	23.37
	8H	21.70	22.23	22.21	22.72	23.29	21.88	22.41	22.39	22.90	23.46