

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: P1499675

Luminaire Tested: MAE-G-4-120-3STD-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499675
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-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

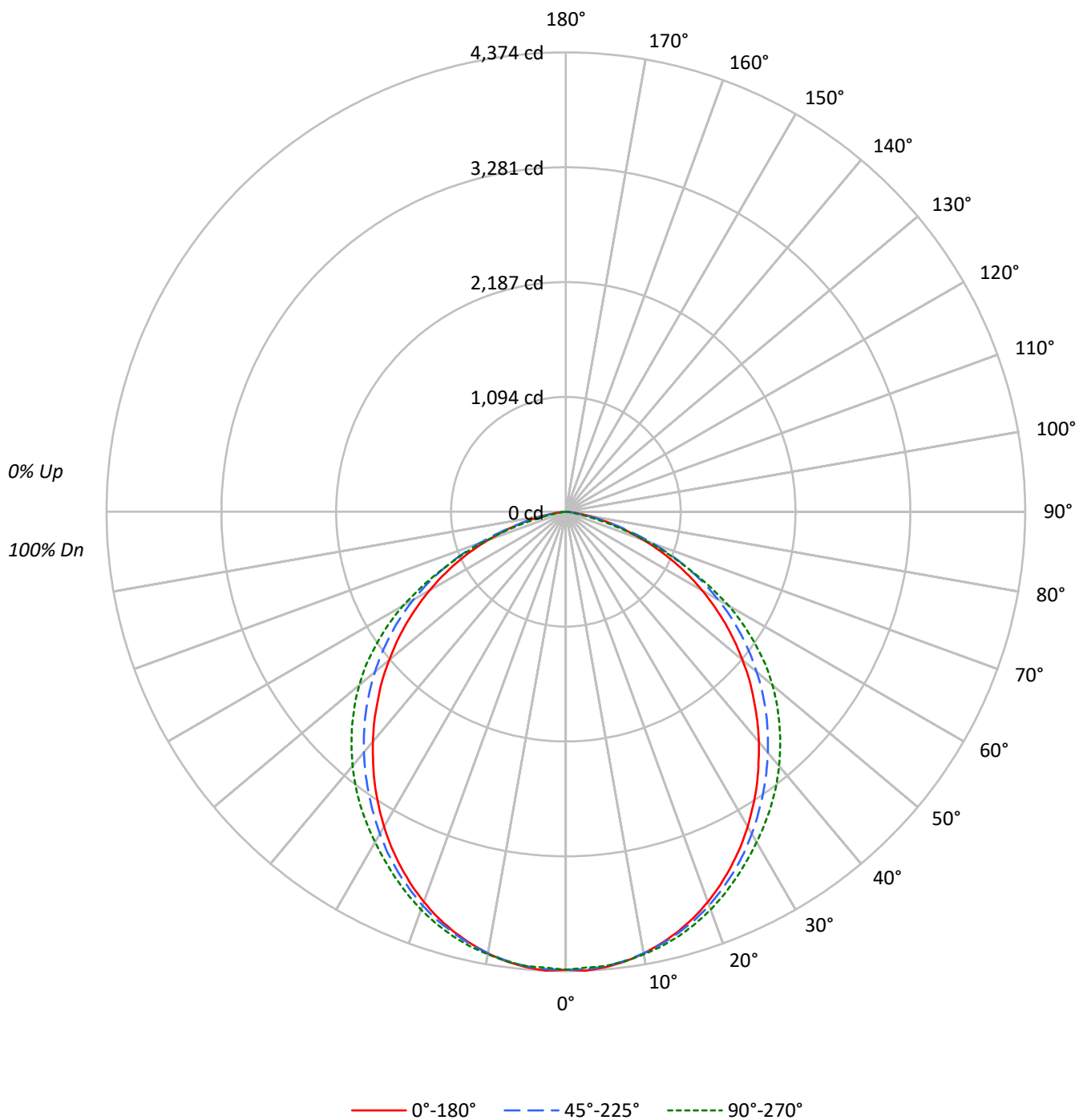
Lumens per Lamp: N/A
Luminaire Lumens: 11050.0 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 102.4
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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	65	59	55	53		
5	78	65	56	50	76	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	43	41		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5866	5866	5866
5°	5879	5866	5864
10°	5835	5833	5846
15°	5761	5779	5822
20°	5661	5713	5772
25°	5529	5618	5706
30°	5380	5502	5646
35°	5211	5376	5603
40°	5021	5255	5547
45°	4817	5125	5476
50°	4593	4967	5379
55°	4346	4774	5172
60°	4034	4511	4826
65°	3642	4114	4133
70°	3109	3454	3212
75°	2442	2520	1976
80°	1593	1296	765
85°	764	513	406

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5476 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.8	3.7
10°-20°	1169.2	10.6
20°-30°	1738.9	15.7
30°-40°	2049.1	18.5
40°-50°	2077.6	18.8
50°-60°	1810.3	16.4
60°-70°	1238.1	11.2
70°-80°	497.3	4.5
80°-90°	57.7	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°	3319.9	30.0
0°-40°	5369.0	48.6
0°-60°	9256.9	83.8
0°-90°	11050.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11050.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4360	4360	4360	4360	4360	
5°	4353	4326	4344	4339	4342	413
15°	4136	4118	4149	4166	4179	1165
25°	3725	3726	3784	3812	3844	1715
35°	3172	3186	3273	3354	3411	1982
45°	2531	2565	2694	2814	2878	1954
55°	1853	1892	2035	2163	2205	1654
65°	1144	1196	1292	1302	1298	1131
75°	470	501	485	416	380	505
85°	50	44	33	29	26	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4359.8	4359.8	4359.8	4359.8	4359.8
2.5°	4373.8	4344.7	4359.8	4356.7	4345.6
5°	4352.7	4326.4	4343.5	4338.6	4341.5
7.5°	4318.4	4294.3	4312.4	4311.5	4316.4
10°	4271.1	4246.9	4269.1	4273.1	4279.2
12.5°	4208.5	4188.5	4215.7	4223.7	4235.7
15°	4135.9	4117.8	4149.0	4166.2	4179.3
17.5°	4051.2	4036.1	4076.4	4092.7	4110.7
20°	3953.4	3942.5	3989.7	4004.9	4031.2
22.5°	3844.7	3838.7	3887.9	3911.1	3941.4
25°	3724.6	3725.7	3784.1	3811.5	3843.6
27.5°	3598.7	3600.7	3667.3	3705.4	3739.8
30°	3462.6	3468.6	3541.2	3588.7	3633.9
32.5°	3318.4	3330.5	3409.1	3473.7	3524.1
35°	3172.3	3186.3	3273.2	3353.6	3411.1
37.5°	3014.1	3037.3	3135.1	3230.9	3290.1
40°	2858.8	2882.0	2991.8	3097.6	3158.2
42.5°	2698.6	2727.8	2844.8	2962.6	3021.0
45°	2531.3	2565.4	2693.5	2814.4	2877.9
47.5°	2370.8	2401.1	2536.2	2662.3	2727.8
50°	2194.4	2232.7	2372.9	2505.0	2569.6
52.5°	2026.2	2061.4	2205.5	2340.8	2399.1
55°	1852.8	1892.0	2035.3	2163.2	2204.6
57.5°	1675.3	1722.7	1860.9	1967.8	2007.0
60°	1499.0	1546.3	1676.4	1764.2	1793.3
62.5°	1323.5	1374.0	1487.9	1546.3	1546.3
65°	1144.1	1195.6	1292.3	1302.3	1298.3
67.5°	964.7	1016.2	1089.7	1071.5	1059.4
70°	790.3	834.6	878.1	844.6	816.6
72.5°	621.0	663.3	670.4	622.1	586.6
75°	469.7	501.1	484.8	416.4	380.1
77.5°	327.5	345.8	311.5	242.0	212.8
80°	205.6	213.7	167.3	117.9	98.7
82.5°	111.0	111.8	72.6	59.5	55.5
85°	49.5	44.3	33.2	29.2	26.3
87.5°	17.2	15.2	12.0	11.1	9.1
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	17.07	18.66	17.44	18.97	19.28	18.06	19.64	18.42	19.95	20.27
	3H	18.48	19.90	18.86	20.23	20.59	19.26	20.68	19.64	21.01	21.37
	4H	18.88	20.21	19.28	20.56	20.94	19.48	20.81	19.88	21.16	21.54
	6H	19.05	20.28	19.46	20.65	21.04	19.49	20.73	19.91	21.09	21.48
	8H	19.07	20.24	19.49	20.63	21.03	19.47	20.65	19.90	21.03	21.43
	12H	19.06	20.18	19.49	20.56	20.99	19.45	20.57	19.88	20.95	21.38
4H	2H	17.74	19.08	18.14	19.43	19.80	18.53	19.87	18.93	20.22	20.59
	3H	19.31	20.42	19.72	20.82	21.22	19.90	21.01	20.31	21.41	21.81
	4H	19.79	20.78	20.22	21.20	21.63	20.18	21.17	20.61	21.58	22.02
	6H	20.03	20.89	20.48	21.33	21.79	20.23	21.09	20.68	21.53	21.99
	8H	20.05	20.86	20.51	21.30	21.77	20.20	21.01	20.67	21.45	21.92
	12H	20.05	20.77	20.53	21.25	21.72	20.18	20.90	20.66	21.38	21.85
8H	4H	19.93	20.74	20.40	21.18	21.65	20.29	21.10	20.76	21.54	22.01
	6H	20.21	20.87	20.70	21.36	21.84	20.35	21.02	20.85	21.51	21.98
	8H	20.25	20.84	20.76	21.35	21.84	20.33	20.92	20.84	21.43	21.92
	12H	20.26	20.79	20.77	21.28	21.84	20.32	20.84	20.83	21.33	21.89
12H	4H	19.92	20.63	20.40	21.11	21.58	20.28	21.00	20.77	21.48	21.95
	6H	20.18	20.77	20.69	21.28	21.77	20.33	20.92	20.84	21.43	21.92
	8H	20.25	20.77	20.75	21.26	21.82	20.33	20.85	20.84	21.35	21.91