

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: P1499423

Luminaire Tested: MAE-G-4-120-2STD-LO-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499423
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-4-120-2STD-LO-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

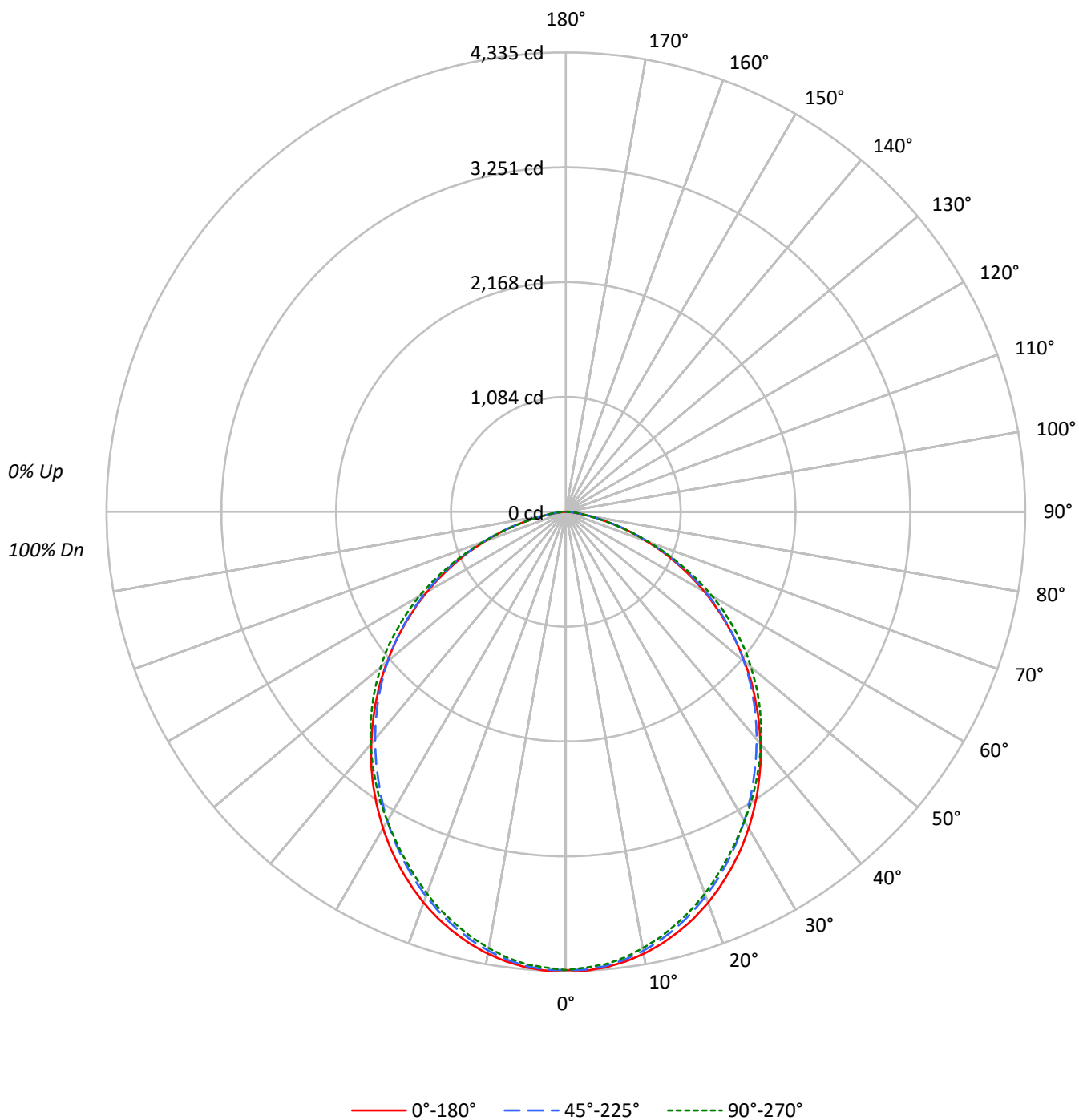
Lumens per Lamp: N/A
Luminaire Lumens: 10594.0 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 116.5
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	45	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5820	5820	5820
5°	5829	5811	5789
10°	5787	5748	5713
15°	5715	5649	5609
20°	5620	5525	5489
25°	5501	5385	5354
30°	5359	5232	5235
35°	5199	5070	5133
40°	5017	4918	5029
45°	4821	4762	4917
50°	4608	4590	4771
55°	4362	4383	4578
60°	4067	4123	4303
65°	3693	3768	3860
70°	3183	3262	3264
75°	2530	2595	2490
80°	1702	1729	1649
85°	861	1095	1359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4917 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.1	3.8
10°-20°	1142.5	10.8
20°-30°	1675.0	15.8
30°-40°	1947.9	18.4
40°-50°	1949.6	18.4
50°-60°	1682.5	15.9
60°-70°	1169.2	11.0
70°-80°	527.3	5.0
80°-90°	92.9	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°	3224.6	30.4
0°-40°	5172.5	48.8
0°-60°	8804.6	83.1
0°-90°	10594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10594.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4325	4325	4325	4325	4325	
5°	4315	4298	4303	4281	4286	409
15°	4103	4076	4055	4023	4027	1156
25°	3705	3670	3628	3598	3607	1705
35°	3165	3123	3087	3100	3125	1978
45°	2534	2499	2502	2552	2584	1955
55°	1860	1836	1869	1927	1951	1661
65°	1160	1154	1184	1201	1212	1148
75°	487	487	499	484	479	524
85°	56	61	71	83	88	84
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4325.4	4325.4	4325.4	4325.4	4325.4
2.5°	4334.6	4318.3	4325.4	4309.1	4306.1
5°	4315.4	4298.2	4302.6	4281.0	4285.9
7.5°	4282.2	4263.2	4262.4	4238.8	4243.9
10°	4235.7	4213.3	4207.2	4178.7	4181.7
12.5°	4176.5	4152.1	4139.3	4107.2	4112.8
15°	4102.7	4076.2	4055.2	4023.0	4026.9
17.5°	4021.6	3994.0	3962.4	3928.8	3937.5
20°	3925.3	3896.1	3859.0	3823.9	3833.8
22.5°	3818.8	3786.3	3748.7	3714.6	3721.8
25°	3705.4	3670.4	3627.5	3598.3	3606.7
27.5°	3581.9	3543.1	3501.0	3476.3	3488.7
30°	3449.2	3409.3	3367.5	3353.1	3369.6
32.5°	3309.6	3269.5	3230.1	3229.7	3253.0
35°	3165.4	3122.9	3086.6	3099.6	3125.2
37.5°	3015.6	2974.1	2944.7	2970.3	2997.3
40°	2856.3	2818.9	2800.0	2834.4	2863.0
42.5°	2696.6	2661.3	2653.0	2696.4	2727.1
45°	2533.6	2499.1	2502.4	2551.5	2584.3
47.5°	2372.3	2336.7	2350.2	2404.6	2434.0
50°	2201.2	2171.4	2192.7	2249.8	2279.5
52.5°	2030.0	2002.7	2032.3	2092.4	2126.7
55°	1859.5	1835.6	1868.6	1927.3	1951.4
57.5°	1685.0	1668.3	1703.7	1754.5	1777.6
60°	1511.3	1496.6	1532.3	1578.1	1599.1
62.5°	1335.7	1324.1	1359.8	1394.9	1406.3
65°	1160.0	1154.3	1183.5	1201.0	1212.5
67.5°	987.9	981.6	1008.3	1021.9	1024.2
70°	809.1	808.6	829.3	833.2	829.6
72.5°	645.6	643.1	658.0	653.0	646.1
75°	486.7	486.9	499.1	484.5	478.9
77.5°	342.4	348.5	349.1	336.0	331.2
80°	219.7	228.0	223.1	217.1	212.8
82.5°	122.7	128.3	127.7	139.4	144.1
85°	55.8	60.9	70.9	83.3	88.0
87.5°	18.9	23.2	29.6	31.4	29.6
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	17.04	18.63	17.41	18.94	19.26	17.40	18.98	17.76	19.30	19.61
	3H	18.50	19.92	18.88	20.25	20.61	18.81	20.24	19.19	20.56	20.93
	4H	18.92	20.26	19.32	20.61	20.98	19.19	20.53	19.59	20.87	21.25
	6H	19.12	20.36	19.53	20.72	21.11	19.36	20.59	19.77	20.96	21.35
	8H	19.15	20.32	19.57	20.71	21.11	19.39	20.56	19.81	20.95	21.35
	12H	19.14	20.27	19.57	20.65	21.08	19.40	20.53	19.83	20.91	21.34
4H	2H	17.62	18.96	18.02	19.30	19.68	17.91	19.24	18.31	19.59	19.97
	3H	19.25	20.36	19.66	20.76	21.16	19.50	20.61	19.91	21.01	21.41
	4H	19.75	20.75	20.19	21.17	21.61	19.96	20.96	20.40	21.38	21.82
	6H	20.03	20.90	20.49	21.34	21.80	20.20	21.07	20.66	21.51	21.97
	8H	20.07	20.88	20.53	21.33	21.79	20.25	21.06	20.71	21.50	21.97
	12H	20.08	20.81	20.56	21.29	21.76	20.28	21.01	20.76	21.49	21.96
8H	4H	19.93	20.75	20.40	21.19	21.65	20.13	20.94	20.59	21.38	21.85
	6H	20.26	20.93	20.76	21.42	21.90	20.41	21.08	20.91	21.57	22.05
	8H	20.33	20.93	20.84	21.44	21.92	20.49	21.09	21.00	21.59	22.08
	12H	20.36	20.89	20.87	21.38	21.94	20.55	21.08	21.06	21.57	22.14
12H	4H	19.93	20.66	20.41	21.13	21.60	20.12	20.85	20.60	21.32	21.79
	6H	20.26	20.86	20.77	21.37	21.85	20.40	21.01	20.92	21.51	22.00
	8H	20.35	20.88	20.86	21.38	21.94	20.51	21.04	21.02	21.53	22.10