

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: P1499615

Luminaire Tested: MAE-G-4-120-3LO-LO-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499615
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-LO-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

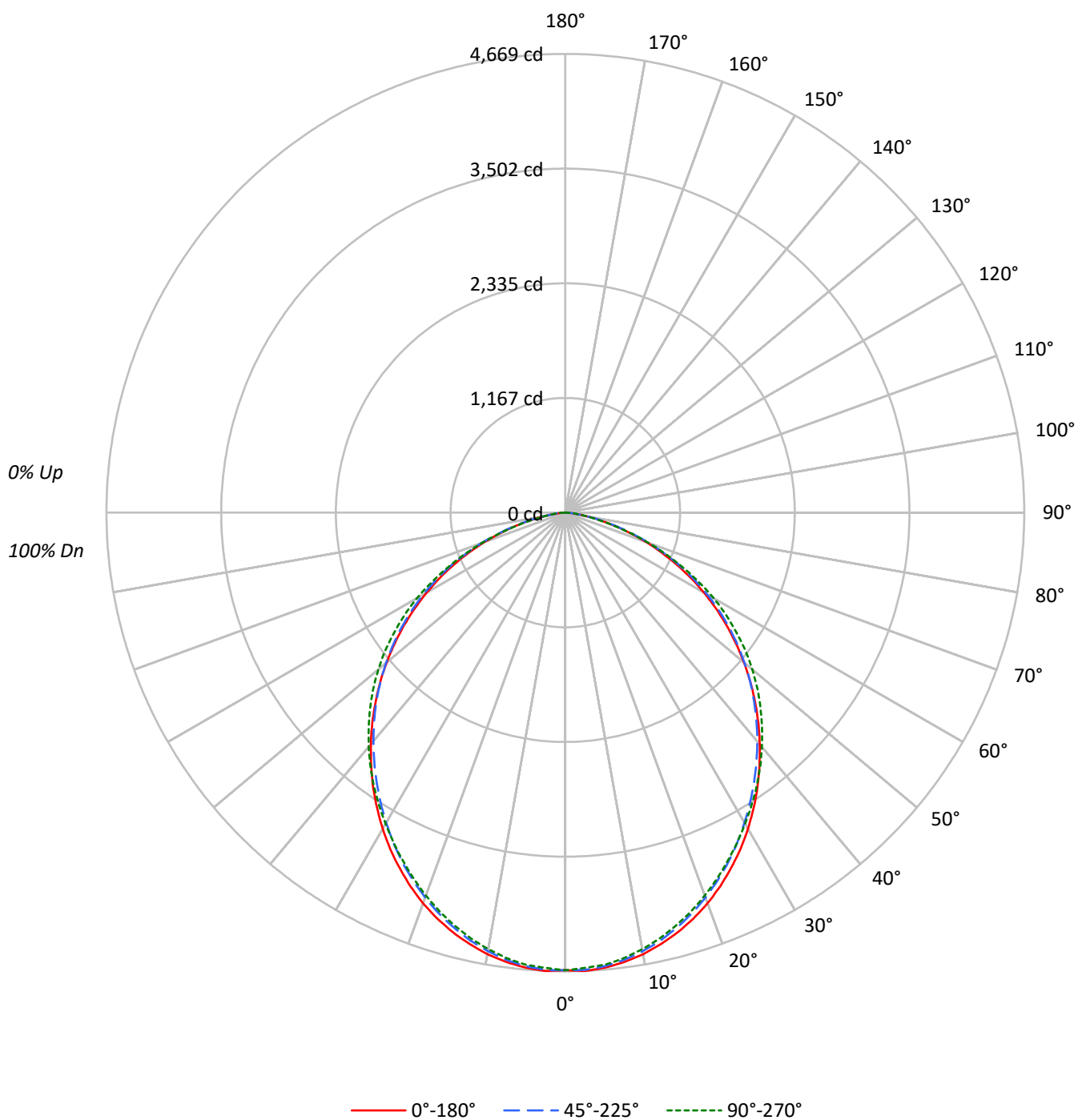
Lumens per Lamp: N/A
Luminaire Lumens: 11466.0 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 120.2
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	88	86		
2	100	92	86	81	98	91	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	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	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	43	40		
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	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6267	6267	6267
5°	6278	6258	6238
10°	6235	6194	6164
15°	6159	6093	6062
20°	6058	5971	5939
25°	5925	5827	5806
30°	5773	5664	5682
35°	5601	5497	5577
40°	5406	5335	5466
45°	5195	5170	5343
50°	4964	4982	5197
55°	4704	4765	4984
60°	4381	4487	4698
65°	3980	4110	4200
70°	3427	3569	3538
75°	2722	2831	2639
80°	1832	1850	1712
85°	940	1155	1400

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5343 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.5	3.8
10°-20°	1232.5	10.7
20°-30°	1810.2	15.8
30°-40°	2107.8	18.4
40°-50°	2112.8	18.4
50°-60°	1826.0	15.9
60°-70°	1270.3	11.1
70°-80°	569.5	5.0
80°-90°	98.3	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°	3481.2	30.4
0°-40°	5589.0	48.7
0°-60°	9527.9	83.1
0°-90°	11466.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11466.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4658	4658	4658	4658	4658	
5°	4648	4628	4634	4612	4618	441
15°	4422	4394	4374	4345	4352	1246
25°	3991	3956	3925	3895	3911	1838
35°	3410	3368	3347	3362	3395	2130
45°	2730	2700	2717	2772	2808	2107
55°	2005	1984	2031	2100	2125	1790
65°	1250	1247	1291	1314	1319	1235
75°	524	528	544	523	508	563
85°	61	65	75	86	91	90
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4657.8	4657.8	4657.8	4657.8	4657.8
2.5°	4669.4	4650.2	4657.8	4641.2	4637.8
5°	4648.5	4628.5	4633.7	4612.4	4618.5
7.5°	4612.4	4591.2	4591.0	4567.9	4573.6
10°	4563.4	4538.6	4533.4	4507.0	4511.4
12.5°	4498.2	4472.7	4461.3	4431.2	4438.7
15°	4421.7	4393.5	4374.2	4344.7	4351.6
17.5°	4332.9	4302.0	4278.6	4244.3	4255.5
20°	4231.1	4197.7	4170.0	4133.4	4148.1
22.5°	4116.9	4081.9	4050.1	4017.5	4032.3
25°	3991.3	3956.0	3924.8	3895.2	3910.7
27.5°	3859.1	3819.9	3788.6	3767.5	3784.7
30°	3716.1	3675.6	3645.4	3632.6	3657.0
32.5°	3565.1	3525.1	3498.6	3499.8	3528.0
35°	3410.1	3367.9	3346.9	3362.4	3395.2
37.5°	3243.3	3208.1	3194.1	3223.8	3257.2
40°	3078.1	3041.3	3037.7	3076.8	3112.0
42.5°	2907.1	2874.8	2879.2	2929.3	2961.9
45°	2730.2	2700.3	2717.0	2772.0	2807.7
47.5°	2556.4	2525.6	2551.5	2611.7	2650.3
50°	2371.6	2346.7	2380.3	2447.6	2482.9
52.5°	2188.0	2164.2	2207.0	2277.9	2312.0
55°	2005.2	1983.8	2031.4	2100.3	2124.7
57.5°	1816.1	1804.1	1853.3	1913.6	1939.2
60°	1628.1	1617.8	1667.3	1723.1	1745.9
62.5°	1439.6	1433.9	1481.1	1525.9	1533.4
65°	1250.0	1246.9	1290.8	1314.5	1319.2
67.5°	1058.1	1060.5	1100.3	1112.1	1111.4
70°	871.2	871.1	907.2	909.8	899.3
72.5°	689.4	694.7	717.7	711.4	694.9
75°	523.7	528.4	544.5	523.3	507.6
77.5°	369.5	373.5	380.1	356.9	347.0
80°	236.4	243.7	238.7	227.6	220.9
82.5°	132.0	139.4	135.1	145.2	149.7
85°	60.9	65.2	74.8	86.2	90.7
87.5°	20.7	24.6	30.7	32.7	30.5
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	17.31	18.89	17.67	19.21	19.52	17.73	19.31	18.09	19.63	19.94
	3H	18.75	20.18	19.13	20.51	20.87	19.13	20.56	19.51	20.88	21.25
	4H	19.17	20.51	19.57	20.86	21.23	19.50	20.83	19.90	21.18	21.56
	6H	19.37	20.61	19.78	20.97	21.37	19.65	20.88	20.06	21.25	21.64
	8H	19.40	20.58	19.82	20.96	21.36	19.67	20.85	20.10	21.24	21.64
	12H	19.39	20.52	19.82	20.90	21.33	19.68	20.81	20.11	21.19	21.62
4H	2H	17.90	19.23	18.30	19.58	19.96	18.24	19.57	18.63	19.92	20.30
	3H	19.52	20.63	19.93	21.03	21.43	19.83	20.94	20.24	21.34	21.74
	4H	20.02	21.02	20.45	21.43	21.87	20.27	21.27	20.71	21.69	22.13
	6H	20.29	21.16	20.75	21.60	22.06	20.49	21.36	20.95	21.80	22.26
	8H	20.33	21.14	20.79	21.59	22.05	20.53	21.34	20.99	21.79	22.25
	12H	20.34	21.07	20.82	21.55	22.02	20.56	21.29	21.04	21.76	22.24
8H	4H	20.20	21.01	20.66	21.46	21.92	20.43	21.25	20.90	21.69	22.15
	6H	20.53	21.20	21.02	21.69	22.16	20.70	21.37	21.19	21.86	22.33
	8H	20.59	21.19	21.10	21.70	22.19	20.76	21.36	21.28	21.87	22.36
	12H	20.62	21.15	21.13	21.64	22.21	20.82	21.35	21.33	21.84	22.41
12H	4H	20.20	20.92	20.68	21.40	21.87	20.43	21.15	20.91	21.63	22.10
	6H	20.52	21.12	21.03	21.63	22.12	20.69	21.29	21.20	21.80	22.29
	8H	20.62	21.14	21.12	21.64	22.20	20.79	21.32	21.30	21.81	22.37