

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: P1499711

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499711
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-LO-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

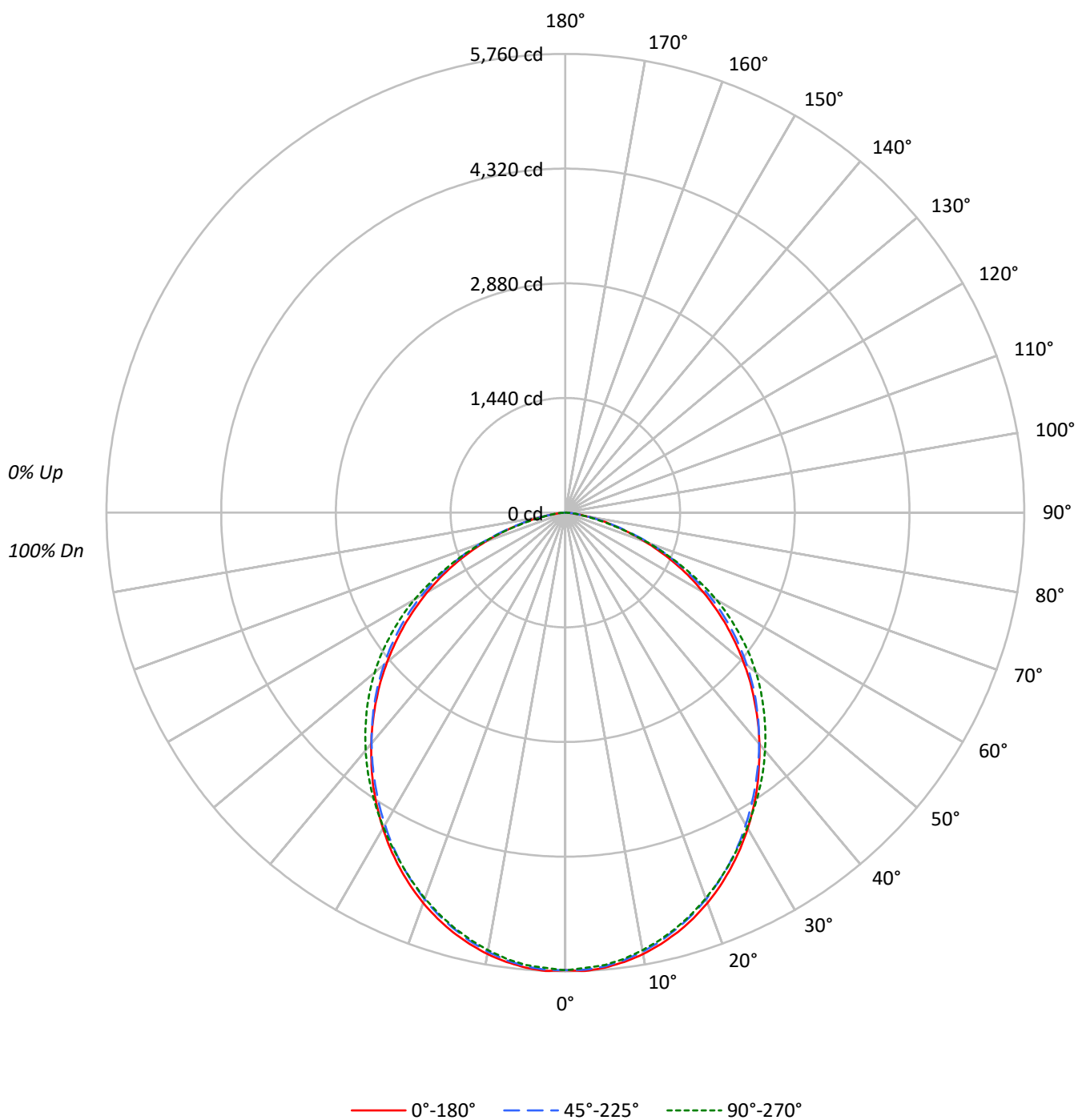
Lumens per Lamp: N/A
Luminaire Lumens: 14222.0 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 150.6
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	93	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°	7730	7730	7730
5°	7745	7722	7700
10°	7690	7649	7622
15°	7596	7534	7513
20°	7470	7396	7379
25°	7305	7228	7229
30°	7115	7036	7090
35°	6901	6838	6974
40°	6659	6646	6849
45°	6396	6448	6708
50°	6110	6221	6539
55°	5788	5956	6274
60°	5387	5612	5902
65°	4888	5136	5231
70°	4203	4430	4339
75°	3332	3459	3132
80°	2229	2173	1902
85°	1130	1283	1502

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6708 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.3	3.8
10°-20°	1524.1	10.7
20°-30°	2243.9	15.8
30°-40°	2618.9	18.4
40°-50°	2630.9	18.5
50°-60°	2277.6	16.0
60°-70°	1579.1	11.1
70°-80°	693.6	4.9
80°-90°	112.6	0.8
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°	4309.2	30.3
0°-40°	6928.1	48.7
0°-60°	11836.7	83.2
0°-90°	14222.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14222.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5745	5745	5745	5745	5745	
5°	5734	5708	5717	5694	5701	544
15°	5453	5421	5409	5384	5394	1537
25°	4920	4885	4869	4846	4869	2265
35°	4201	4163	4163	4199	4246	2625
45°	3362	3340	3389	3474	3526	2594
55°	2467	2456	2539	2640	2674	2203
65°	1535	1545	1613	1639	1643	1517
75°	641	653	665	627	602	688
85°	73	76	83	94	97	109
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5745.2	5745.2	5745.2	5745.2	5745.2
2.5°	5760.3	5733.8	5745.2	5727.8	5721.7
5°	5734.1	5707.6	5717.0	5694.5	5701.3
7.5°	5689.5	5662.3	5666.6	5643.2	5650.1
10°	5628.7	5597.8	5598.2	5572.7	5578.7
12.5°	5547.9	5517.3	5512.7	5484.6	5495.2
15°	5453.2	5420.6	5409.0	5383.8	5393.9
17.5°	5343.3	5308.6	5295.3	5265.1	5280.7
20°	5217.1	5181.0	5165.1	5132.3	5153.5
22.5°	5075.8	5039.4	5019.8	4993.0	5015.3
25°	4920.3	4885.3	4868.6	4845.9	4869.3
27.5°	4756.7	4718.0	4703.3	4691.7	4717.4
30°	4579.7	4540.7	4528.7	4527.7	4563.4
32.5°	4392.8	4355.7	4348.9	4366.2	4407.0
35°	4201.3	4162.6	4163.2	4198.9	4246.0
37.5°	3995.1	3965.6	3976.1	4029.6	4077.8
40°	3791.1	3760.1	3783.9	3849.4	3899.7
42.5°	3580.2	3555.1	3588.7	3668.2	3715.4
45°	3361.6	3340.1	3388.7	3473.9	3525.5
47.5°	3147.7	3124.5	3184.1	3275.7	3330.6
50°	2918.9	2903.6	2972.1	3072.4	3123.8
52.5°	2693.3	2678.3	2757.1	2861.7	2910.4
55°	2467.4	2455.7	2539.0	2639.8	2674.5
57.5°	2233.9	2233.8	2317.5	2404.4	2439.7
60°	2001.9	2003.5	2085.4	2163.1	2193.2
62.5°	1769.7	1776.6	1852.2	1911.6	1919.1
65°	1535.3	1545.1	1613.1	1639.3	1643.0
67.5°	1298.7	1313.9	1372.1	1379.4	1375.6
70°	1068.3	1079.3	1126.2	1120.4	1103.0
72.5°	844.3	860.2	884.9	866.6	841.2
75°	640.9	653.4	665.4	627.2	602.4
77.5°	451.2	459.7	457.8	417.3	400.1
80°	287.7	297.0	280.4	257.0	245.5
82.5°	159.7	167.3	153.2	160.0	163.5
85°	73.2	76.3	83.1	93.5	97.3
87.5°	25.0	28.4	33.7	35.5	32.8
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	18.04	19.62	18.40	19.93	20.25	18.57	20.15	18.93	20.46	20.78
	3H	19.48	20.90	19.85	21.23	21.59	19.93	21.35	20.31	21.68	22.04
	4H	19.89	21.23	20.29	21.57	21.95	20.26	21.60	20.66	21.95	22.33
	6H	20.08	21.32	20.50	21.68	22.08	20.38	21.62	20.79	21.98	22.38
	8H	20.11	21.28	20.53	21.67	22.07	20.40	21.57	20.82	21.96	22.36
	12H	20.10	21.23	20.53	21.61	22.04	20.40	21.52	20.83	21.91	22.33
4H	2H	18.64	19.98	19.04	20.32	20.70	19.07	20.41	19.47	20.75	21.13
	3H	20.25	21.36	20.66	21.76	22.16	20.61	21.72	21.02	22.12	22.52
	4H	20.75	21.75	21.18	22.16	22.60	21.02	22.02	21.46	22.44	22.88
	6H	21.02	21.88	21.47	22.32	22.78	21.21	22.07	21.66	22.51	22.97
	8H	21.05	21.86	21.51	22.31	22.77	21.23	22.04	21.69	22.48	22.95
	12H	21.06	21.78	21.54	22.26	22.73	21.25	21.97	21.73	22.45	22.92
8H	4H	20.92	21.73	21.38	22.18	22.64	21.18	21.99	21.64	22.43	22.90
	6H	21.24	21.91	21.73	22.40	22.87	21.39	22.06	21.89	22.55	23.03
	8H	21.30	21.90	21.81	22.40	22.89	21.44	22.04	21.95	22.55	23.03
	12H	21.33	21.85	21.83	22.34	22.91	21.48	22.01	21.99	22.50	23.06
12H	4H	20.91	21.64	21.40	22.12	22.59	21.17	21.89	21.65	22.37	22.84
	6H	21.23	21.82	21.74	22.33	22.82	21.38	21.98	21.90	22.49	22.98
	8H	21.32	21.84	21.82	22.33	22.90	21.46	21.99	21.97	22.48	23.04