

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: P1499531

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499531
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-4-120-3HI-LO-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

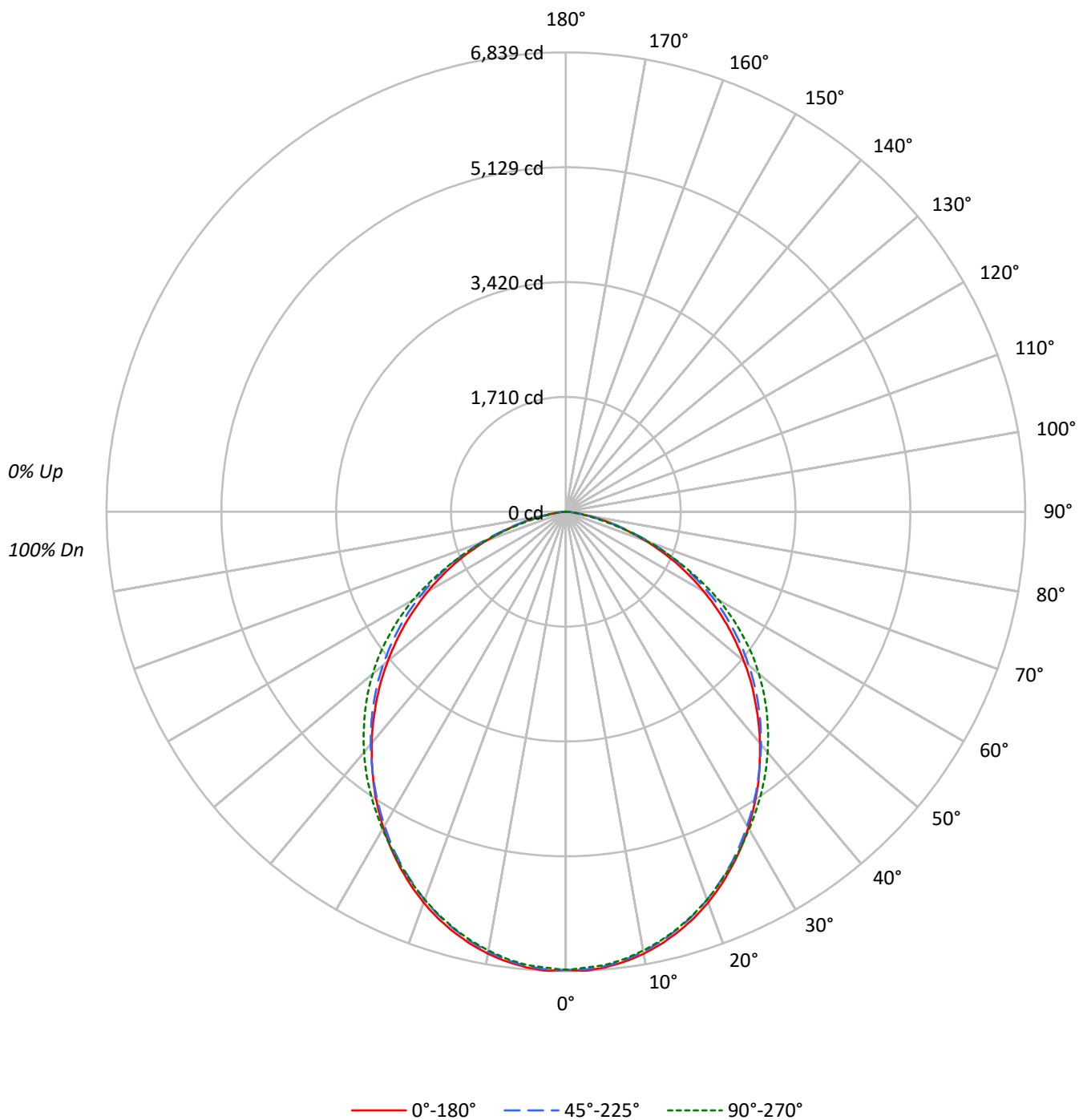
Lumens per Lamp: N/A
Luminaire Lumens: 16942.0 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 181.1
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	93	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	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9177	9177	9177
5°	9194	9168	9146
10°	9129	9086	9062
15°	9017	8958	8947
20°	8866	8802	8799
25°	8668	8611	8632
30°	8442	8389	8477
35°	8186	8160	8350
40°	7898	7938	8210
45°	7585	7707	8051
50°	7244	7441	7857
55°	6861	7128	7541
60°	6383	6719	7085
65°	5788	6146	6247
70°	4971	5280	5133
75°	3935	4083	3627
80°	2624	2500	2104
85°	1321	1417	1616

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8051 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.8	3.8
10°-20°	1812.2	10.7
20°-30°	2672.0	15.8
30°-40°	3123.0	18.4
40°-50°	3141.7	18.5
50°-60°	2722.4	16.1
60°-70°	1883.7	11.1
70°-80°	816.8	4.8
80°-90°	127.4	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°	5127.0	30.3
0°-40°	8250.0	48.7
0°-60°	14114.1	83.3
0°-90°	16942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16942.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6820	6820	6820	6820	6820	
5°	6808	6775	6788	6764	6772	646
15°	6473	6436	6431	6410	6423	1824
25°	5839	5804	5800	5783	5814	2688
35°	4984	4948	4968	5023	5084	3114
45°	3986	3972	4050	4164	4231	3076
55°	2925	2922	3039	3170	3215	2611
65°	1818	1840	1930	1959	1962	1797
75°	757	777	785	731	698	813
85°	86	88	92	101	105	128
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6820.5	6820.5	6820.5	6820.5	6820.5
2.5°	6839.0	6805.4	6820.5	6802.1	6793.3
5°	6807.5	6774.7	6788.1	6764.1	6771.8
7.5°	6754.4	6721.4	6729.9	6705.9	6714.0
10°	6682.0	6645.2	6650.5	6625.8	6633.1
12.5°	6585.9	6550.3	6551.8	6525.1	6538.5
15°	6473.2	6436.0	6431.3	6409.7	6422.9
17.5°	6342.6	6303.8	6299.5	6272.5	6292.4
20°	6192.2	6153.1	6147.5	6117.7	6145.3
22.5°	6024.1	5985.7	5977.0	5955.1	5984.6
25°	5839.0	5803.7	5800.1	5783.1	5814.3
27.5°	5644.4	5605.5	5605.7	5602.7	5636.5
30°	5433.9	5395.7	5399.9	5409.7	5456.2
32.5°	5211.5	5176.6	5187.4	5219.7	5272.5
35°	4983.9	4947.8	4968.2	5022.6	5083.5
37.5°	4738.8	4714.0	4746.9	4823.0	4885.3
40°	4496.5	4470.3	4519.4	4609.8	4674.5
42.5°	4246.1	4227.3	4287.9	4395.2	4456.4
45°	3986.3	3972.2	4050.5	4164.4	4231.2
47.5°	3732.8	3716.1	3807.2	3928.8	3999.3
50°	3460.6	3453.7	3555.0	3686.6	3753.6
52.5°	3193.4	3186.1	3298.7	3435.6	3498.2
55°	2924.8	2921.7	3038.8	3170.0	3214.7
57.5°	2647.6	2658.1	2774.3	2886.8	2931.6
60°	2372.0	2384.2	2497.0	2595.7	2632.8
62.5°	2096.5	2115.0	2217.4	2290.9	2298.6
65°	1817.9	1839.5	1930.4	1959.4	1962.1
67.5°	1537.1	1564.2	1639.9	1643.2	1636.6
70°	1263.6	1284.9	1342.2	1328.8	1304.8
72.5°	997.9	1023.5	1050.2	1020.7	986.9
75°	757.0	776.9	785.4	731.1	697.6
77.5°	532.2	545.0	535.4	478.5	454.4
80°	338.6	349.9	322.6	287.7	271.6
82.5°	187.2	195.2	172.0	175.9	178.5
85°	85.6	87.5	91.8	101.4	104.7
87.5°	29.2	32.3	36.9	38.6	35.3
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	18.63	20.21	19.00	20.53	20.84	19.23	20.81	19.60	21.13	21.44
	3H	20.07	21.49	20.44	21.82	22.18	20.57	21.99	20.95	22.32	22.68
	4H	20.48	21.81	20.88	22.16	22.54	20.88	22.22	21.28	22.57	22.94
	6H	20.67	21.90	21.08	22.27	22.66	20.99	22.22	21.40	22.59	22.98
	8H	20.69	21.87	21.12	22.26	22.66	20.99	22.17	21.42	22.56	22.96
	12H	20.69	21.81	21.12	22.19	22.62	20.99	22.11	21.42	22.50	22.92
4H	2H	19.24	20.58	19.64	20.93	21.31	19.73	21.06	20.13	21.41	21.79
	3H	20.85	21.96	21.26	22.36	22.76	21.25	22.36	21.66	22.75	23.15
	4H	21.34	22.34	21.78	22.76	23.19	21.63	22.63	22.07	23.05	23.48
	6H	21.61	22.47	22.06	22.92	23.37	21.79	22.66	22.25	23.10	23.56
	8H	21.64	22.45	22.10	22.89	23.36	21.81	22.62	22.27	23.06	23.53
	12H	21.65	22.37	22.13	22.85	23.32	21.82	22.54	22.30	23.02	23.49
8H	4H	21.51	22.32	21.98	22.77	23.23	21.78	22.59	22.24	23.03	23.50
	6H	21.82	22.49	22.32	22.98	23.46	21.97	22.64	22.47	23.13	23.61
	8H	21.88	22.48	22.39	22.99	23.47	22.01	22.60	22.52	23.11	23.60
	12H	21.91	22.43	22.41	22.92	23.49	22.04	22.56	22.54	23.05	23.62
12H	4H	21.50	22.23	21.99	22.71	23.18	21.77	22.50	22.26	22.98	23.45
	6H	21.81	22.41	22.32	22.91	23.40	21.96	22.56	22.47	23.07	23.55
	8H	21.89	22.42	22.40	22.91	23.48	22.02	22.55	22.53	23.04	23.60