

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: P1499537

Luminaire Tested: MAE-G-4-120-3HI-STD-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499537
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-STD-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

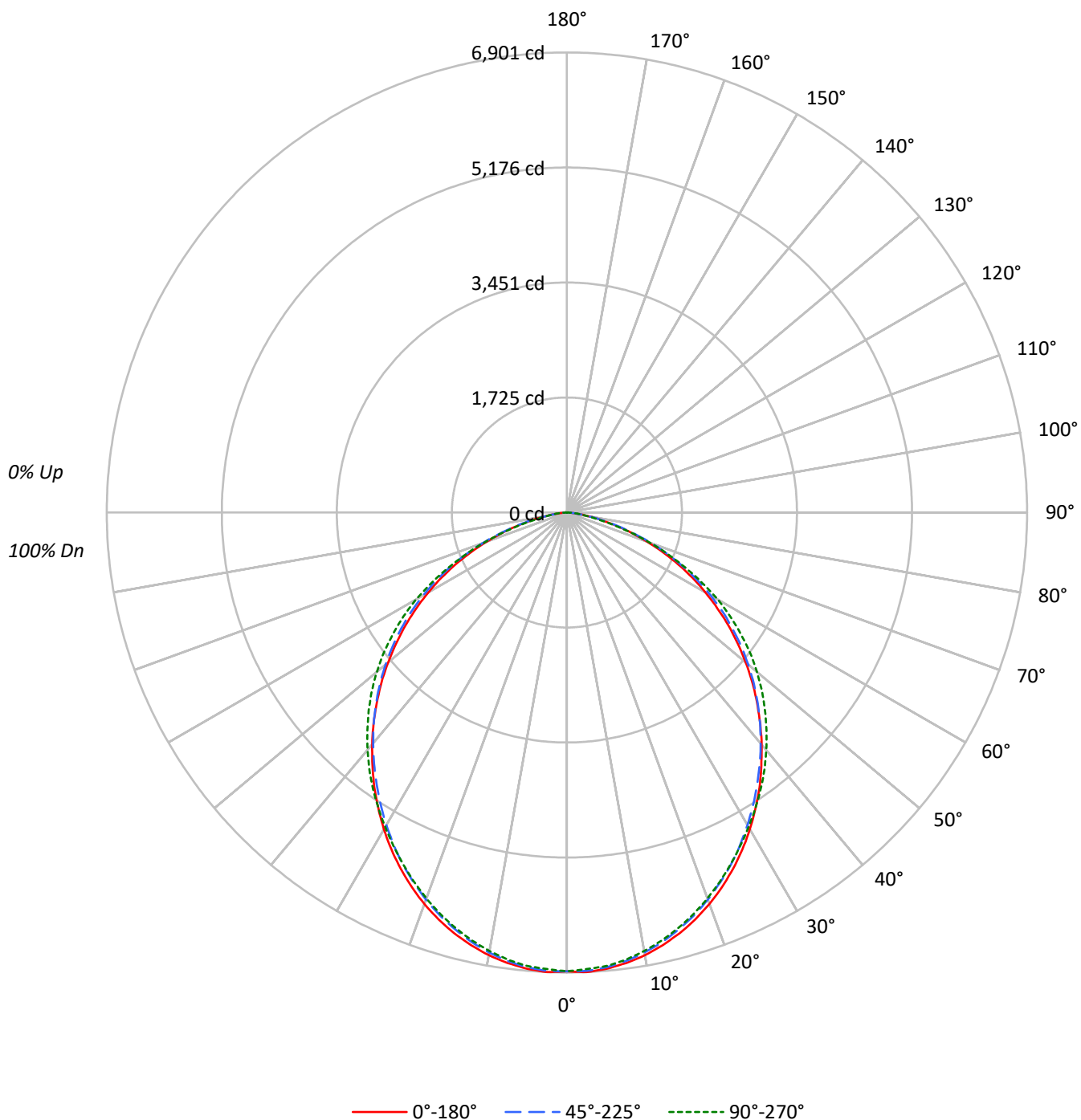
Lumens per Lamp: N/A
Luminaire Lumens: 17011.0 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 201.4
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
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°	9261	9261	9261
5°	9278	9250	9223
10°	9213	9160	9125
15°	9101	9020	8989
20°	8950	8849	8822
25°	8752	8645	8637
30°	8526	8412	8466
35°	8270	8173	8323
40°	7981	7940	8169
45°	7667	7700	7996
50°	7324	7427	7789
55°	6939	7108	7473
60°	6460	6697	7034
65°	5863	6130	6249
70°	5043	5298	5207
75°	4000	4155	3794
80°	2681	2641	2350
85°	1363	1585	1877

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7996 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	648.3	3.8
10°-20°	1824.5	10.7
20°-30°	2684.4	15.8
30°-40°	3131.0	18.4
40°-50°	3143.4	18.5
50°-60°	2719.9	16.0
60°-70°	1887.6	11.1
70°-80°	834.0	4.9
80°-90°	137.9	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°	5157.3	30.3
0°-40°	8288.2	48.7
0°-60°	14151.5	83.2
0°-90°	17011.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17011.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6883	6883	6883	6883	6883	
5°	6870	6838	6848	6820	6829	652
15°	6533	6494	6475	6441	6453	1841
25°	5896	5851	5823	5791	5818	2714
35°	5035	4984	4976	5013	5067	3146
45°	4029	3998	4047	4143	4202	3109
55°	2958	2939	3030	3146	3186	2641
65°	1842	1849	1925	1958	1963	1820
75°	770	782	799	758	730	827
85°	88	93	103	116	122	132
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6882.9	6882.9	6882.9	6882.9	6882.9
2.5°	6900.8	6869.8	6882.9	6861.0	6854.3
5°	6869.5	6838.3	6848.5	6820.2	6828.7
7.5°	6816.1	6783.9	6787.3	6757.5	6765.9
10°	6743.3	6706.5	6704.5	6671.6	6678.6
12.5°	6646.7	6609.8	6600.9	6564.2	6576.3
15°	6533.3	6493.5	6475.4	6441.4	6452.9
17.5°	6401.9	6359.0	6337.8	6297.4	6315.5
20°	6250.7	6205.9	6180.3	6136.9	6161.2
22.5°	6081.7	6035.7	6005.5	5968.7	5994.1
25°	5895.5	5850.7	5823.2	5791.3	5817.9
27.5°	5699.7	5650.0	5624.2	5605.4	5634.6
30°	5487.9	5437.5	5414.3	5408.1	5448.9
32.5°	5264.3	5215.6	5198.4	5213.8	5260.5
35°	5034.9	4984.0	4975.6	5012.7	5066.9
37.5°	4788.0	4747.8	4751.0	4809.4	4864.6
40°	4543.8	4501.6	4520.5	4593.0	4650.8
42.5°	4291.1	4256.0	4286.5	4375.6	4429.8
45°	4029.3	3998.3	4046.8	4143.0	4202.1
47.5°	3773.0	3740.1	3802.0	3905.8	3969.0
50°	3499.1	3475.4	3548.2	3662.4	3721.3
52.5°	3228.6	3205.6	3291.0	3410.5	3466.6
55°	2958.0	2938.9	3030.3	3145.5	3185.6
57.5°	2678.5	2673.3	2765.5	2865.3	2906.4
60°	2400.5	2397.4	2488.5	2578.4	2613.8
62.5°	2122.2	2125.8	2210.1	2279.9	2289.6
65°	1841.5	1848.6	1925.3	1957.8	1962.8
67.5°	1558.1	1572.1	1638.7	1649.9	1646.4
70°	1281.9	1291.3	1346.7	1342.9	1323.6
72.5°	1013.6	1029.3	1060.3	1042.0	1013.2
75°	769.5	782.2	799.3	757.7	729.8
77.5°	542.2	551.1	552.3	507.9	489.0
80°	346.0	356.9	340.8	316.0	303.3
82.5°	192.4	202.0	188.2	198.2	203.2
85°	88.3	92.8	102.7	116.4	121.6
87.5°	30.2	34.8	41.8	44.1	40.9
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	18.66	20.25	19.03	20.56	20.88	19.16	20.75	19.53	21.06	21.38
	3H	20.11	21.53	20.48	21.86	22.22	20.54	21.96	20.92	22.29	22.65
	4H	20.52	21.86	20.92	22.20	22.58	20.88	22.22	21.28	22.57	22.94
	6H	20.72	21.95	21.13	22.32	22.71	21.01	22.24	21.42	22.61	23.00
	8H	20.74	21.92	21.17	22.31	22.71	21.02	22.20	21.45	22.59	22.99
	12H	20.74	21.86	21.17	22.25	22.67	21.03	22.16	21.46	22.54	22.97
4H	2H	19.26	20.60	19.66	20.95	21.33	19.67	21.00	20.07	21.35	21.73
	3H	20.88	21.99	21.29	22.39	22.79	21.22	22.34	21.63	22.73	23.13
	4H	21.38	22.37	21.81	22.79	23.23	21.65	22.64	22.08	23.06	23.50
	6H	21.65	22.51	22.10	22.96	23.41	21.84	22.71	22.29	23.15	23.60
	8H	21.68	22.49	22.14	22.94	23.40	21.87	22.68	22.33	23.12	23.59
	12H	21.69	22.42	22.17	22.89	23.36	21.89	22.61	22.37	23.09	23.56
8H	4H	21.55	22.36	22.01	22.81	23.27	21.80	22.61	22.26	23.05	23.52
	6H	21.87	22.54	22.37	23.03	23.51	22.03	22.70	22.53	23.19	23.67
	8H	21.93	22.53	22.44	23.04	23.53	22.08	22.68	22.59	23.19	23.68
	12H	21.96	22.49	22.47	22.98	23.54	22.13	22.66	22.64	23.15	23.71
12H	4H	21.55	22.27	22.03	22.75	23.22	21.79	22.52	22.28	23.00	23.47
	6H	21.86	22.46	22.37	22.97	23.46	22.02	22.62	22.53	23.13	23.62
	8H	21.95	22.48	22.46	22.97	23.53	22.10	22.63	22.61	23.12	23.69