

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: P1499465

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499465
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-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

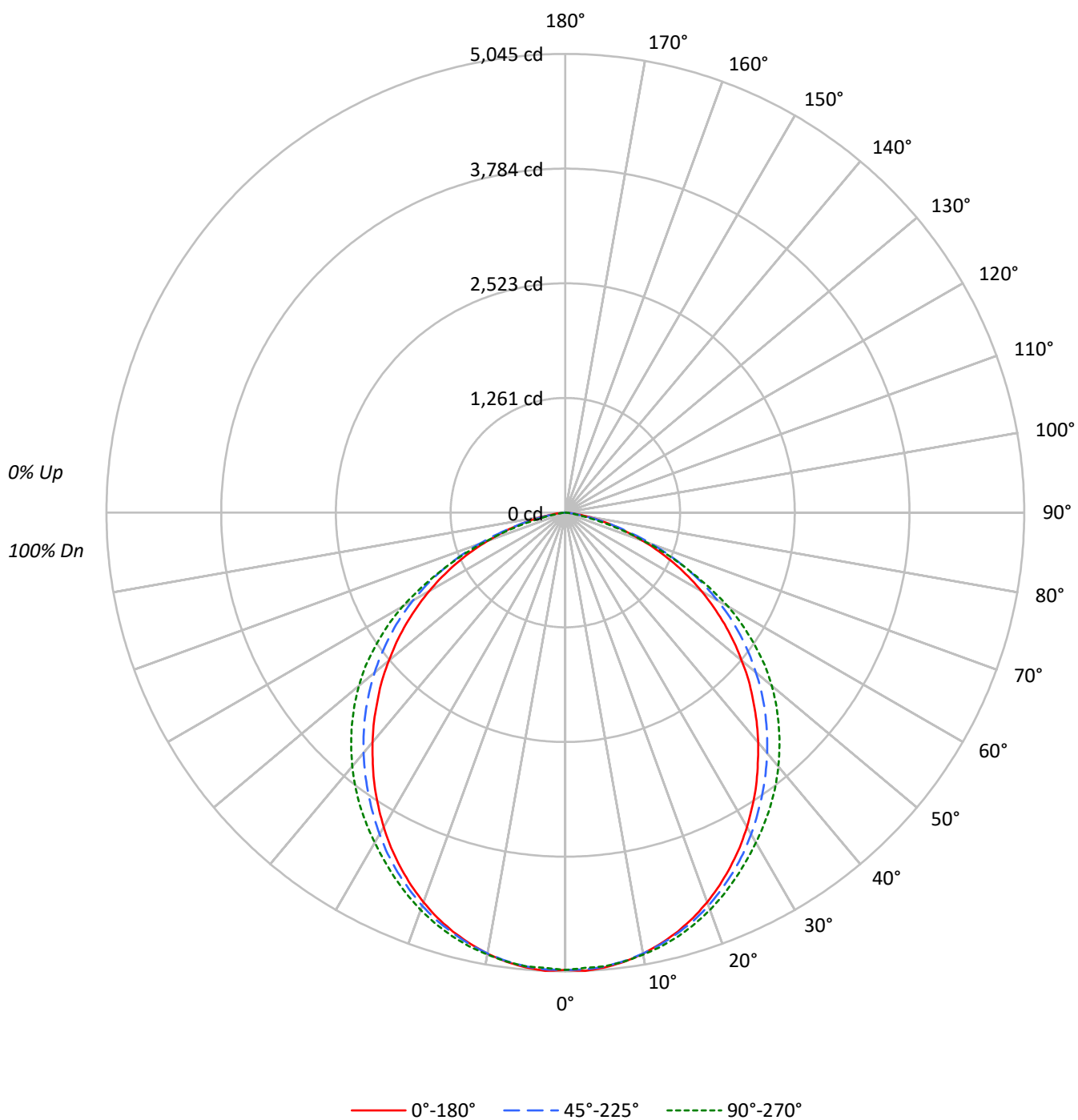
Lumens per Lamp: N/A
Luminaire Lumens: 12745.0 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132.9
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	102	98	107	103	100	96	99	96	93		95	93	91		92
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		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
5	78	65	56	50	76	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	36	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°	6766	6766	6766
5°	6781	6766	6763
10°	6731	6727	6743
15°	6645	6666	6715
20°	6529	6589	6657
25°	6378	6479	6581
30°	6205	6346	6512
35°	6010	6201	6462
40°	5791	6061	6398
45°	5555	5911	6316
50°	5298	5729	6204
55°	5013	5507	5965
60°	4653	5203	5566
65°	4201	4745	4767
70°	3586	3984	3705
75°	2816	2907	2279
80°	1838	1495	882
85°	880	591	468

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6316 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.0	3.7
10°-20°	1348.5	10.6
20°-30°	2005.6	15.7
30°-40°	2363.4	18.5
40°-50°	2396.2	18.8
50°-60°	2088.0	16.4
60°-70°	1428.0	11.2
70°-80°	573.6	4.5
80°-90°	66.5	0.5
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°	3829.2	30.0
0°-40°	6192.6	48.6
0°-60°	10676.8	83.8
0°-90°	12745.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12745.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5029	5029	5029	5029	5029	
5°	5020	4990	5010	5004	5008	476
15°	4770	4750	4786	4805	4820	1344
25°	4296	4297	4364	4396	4433	1978
35°	3659	3675	3775	3868	3934	2286
45°	2920	2959	3107	3246	3319	2253
55°	2137	2182	2348	2495	2543	1908
65°	1320	1379	1490	1502	1497	1305
75°	542	578	559	480	438	582
85°	57	51	38	34	30	88
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5028.6	5028.6	5028.6	5028.6	5028.6
2.5°	5044.8	5011.1	5028.6	5025.0	5012.1
5°	5020.4	4990.0	5009.8	5004.2	5007.5
7.5°	4980.8	4953.0	4973.8	4972.8	4978.5
10°	4926.3	4898.3	4924.0	4928.6	4935.6
12.5°	4854.1	4831.0	4862.3	4871.6	4885.4
15°	4770.3	4749.5	4785.5	4805.3	4820.4
17.5°	4672.7	4655.2	4701.7	4720.5	4741.3
20°	4559.8	4547.3	4601.7	4619.2	4649.5
22.5°	4434.4	4427.5	4484.3	4511.0	4546.0
25°	4295.9	4297.2	4364.5	4396.2	4433.2
27.5°	4150.7	4153.1	4229.9	4273.8	4313.4
30°	3993.7	4000.7	4084.4	4139.2	4191.3
32.5°	3827.5	3841.3	3932.0	4006.6	4064.6
35°	3658.9	3675.1	3775.3	3868.1	3934.4
37.5°	3476.4	3503.1	3616.0	3726.5	3794.8
40°	3297.3	3324.0	3450.7	3572.8	3642.7
42.5°	3112.5	3146.2	3281.1	3417.1	3484.4
45°	2919.5	2958.9	3106.6	3246.2	3319.4
47.5°	2734.5	2769.5	2925.2	3070.7	3146.2
50°	2531.0	2575.2	2736.8	2889.2	2963.7
52.5°	2337.0	2377.6	2543.8	2699.8	2767.2
55°	2137.0	2182.3	2347.5	2495.0	2542.8
57.5°	1932.2	1987.0	2146.3	2269.6	2314.9
60°	1729.0	1783.4	1933.5	2034.8	2068.4
62.5°	1526.5	1584.8	1716.1	1783.4	1783.4
65°	1319.6	1379.0	1490.5	1502.0	1497.4
67.5°	1112.7	1172.1	1256.9	1235.8	1221.9
70°	911.5	962.6	1012.8	974.2	941.8
72.5°	716.2	765.0	773.3	717.5	676.6
75°	541.7	577.9	559.2	480.3	438.4
77.5°	377.8	398.8	359.3	279.1	245.4
80°	237.2	246.4	193.0	135.9	113.8
82.5°	128.0	129.0	83.8	68.6	64.0
85°	57.0	51.1	38.3	33.7	30.3
87.5°	19.8	17.5	13.9	12.8	10.5
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	17.57	19.15	17.93	19.47	19.78	18.55	20.14	18.92	20.45	20.76
	3H	18.98	20.40	19.36	20.73	21.09	19.76	21.18	20.13	21.50	21.87
	4H	19.37	20.71	19.77	21.05	21.43	19.97	21.31	20.37	21.66	22.03
	6H	19.55	20.78	19.96	21.15	21.54	19.99	21.22	20.40	21.59	21.98
	8H	19.56	20.74	19.99	21.13	21.53	19.97	21.14	20.39	21.53	21.93
	12H	19.55	20.68	19.98	21.06	21.49	19.94	21.07	20.37	21.45	21.88
4H	2H	18.24	19.57	18.64	19.92	20.30	19.03	20.36	19.43	20.71	21.09
	3H	19.81	20.91	20.22	21.31	21.71	20.40	21.51	20.81	21.90	22.30
	4H	20.28	21.28	20.72	21.69	22.13	20.67	21.67	21.10	22.08	22.52
	6H	20.52	21.39	20.98	21.83	22.29	20.72	21.59	21.18	22.03	22.49
	8H	20.55	21.35	21.01	21.80	22.26	20.70	21.50	21.16	21.95	22.41
	12H	20.55	21.27	21.03	21.74	22.21	20.68	21.40	21.16	21.87	22.35
8H	4H	20.43	21.23	20.89	21.68	22.14	20.79	21.59	21.25	22.04	22.50
	6H	20.70	21.37	21.20	21.86	22.33	20.85	21.51	21.35	22.00	22.48
	8H	20.74	21.34	21.26	21.85	22.33	20.83	21.42	21.34	21.93	22.42
	12H	20.76	21.28	21.27	21.77	22.34	20.81	21.33	21.32	21.83	22.39
12H	4H	20.41	21.13	20.89	21.61	22.08	20.78	21.50	21.26	21.98	22.45
	6H	20.67	21.27	21.19	21.78	22.26	20.83	21.42	21.34	21.93	22.42
	8H	20.74	21.26	21.25	21.75	22.32	20.83	21.35	21.34	21.84	22.41

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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