

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: P1499486

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499486
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-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

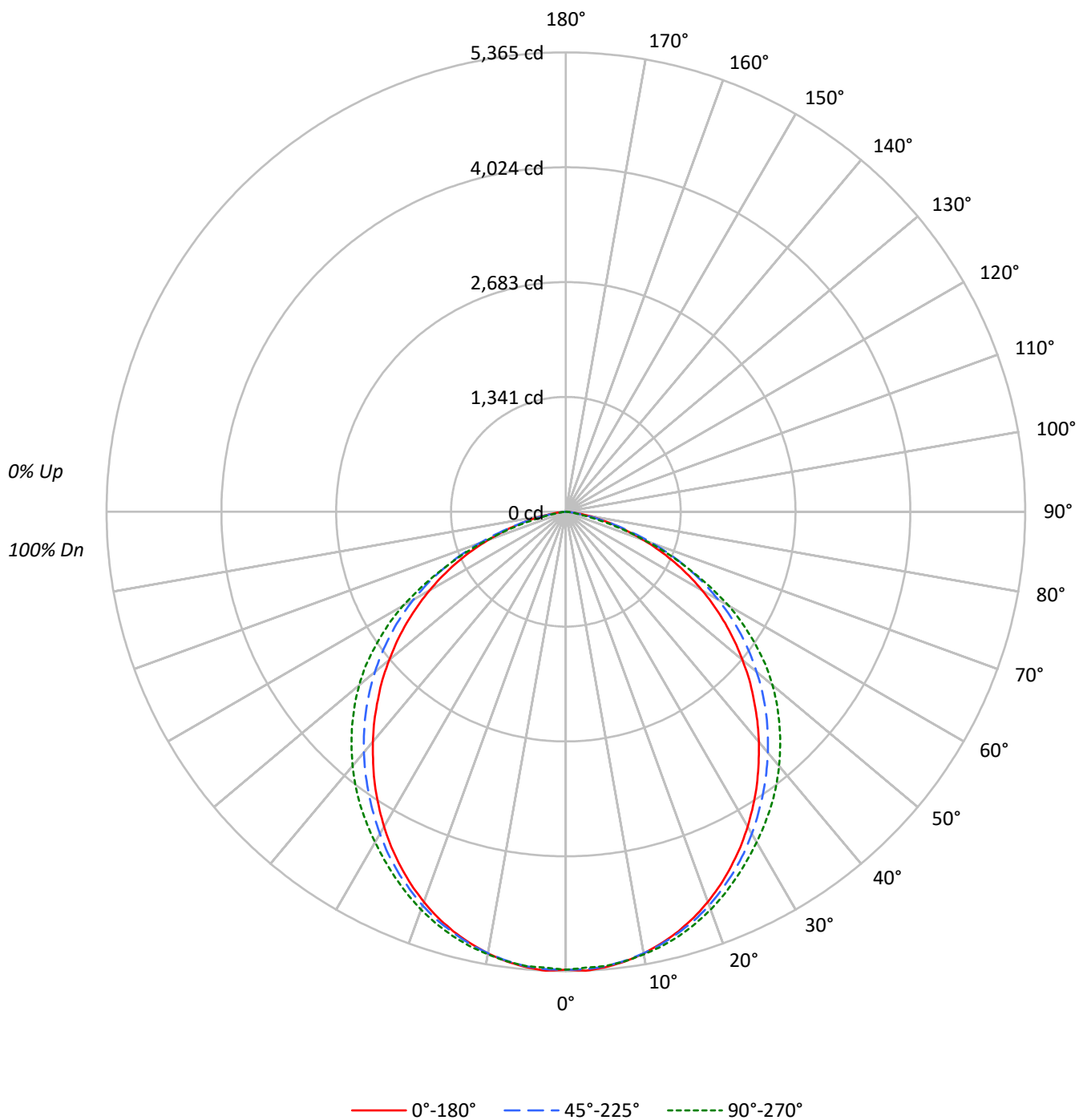
Lumens per Lamp: N/A
Luminaire Lumens: 13554.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	64	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	65	59	55	55	55	53
5	78	65	56	50	76	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7195	7195	7195
5°	7211	7196	7193
10°	7158	7154	7171
15°	7067	7089	7141
20°	6943	7007	7080
25°	6782	6891	6999
30°	6599	6749	6925
35°	6391	6595	6873
40°	6159	6446	6804
45°	5908	6287	6717
50°	5634	6092	6598
55°	5331	5856	6343
60°	4948	5533	5919
65°	4468	5046	5070
70°	3814	4237	3940
75°	2995	3092	2424
80°	1954	1590	938
85°	937	628	497

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6717 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.2	3.7
10°-20°	1434.1	10.6
20°-30°	2132.9	15.7
30°-40°	2513.4	18.5
40°-50°	2548.3	18.8
50°-60°	2220.6	16.4
60°-70°	1518.7	11.2
70°-80°	610.0	4.5
80°-90°	70.7	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°	4072.2	30.0
0°-40°	6585.6	48.6
0°-60°	11354.6	83.8
0°-90°	13554.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13554.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5348	5348	5348	5348	5348	
5°	5339	5307	5328	5322	5325	506
15°	5073	5051	5089	5110	5126	1429
25°	4569	4570	4642	4675	4715	2103
35°	3891	3908	4015	4114	4184	2431
45°	3105	3147	3304	3452	3530	2397
55°	2273	2321	2496	2653	2704	2029
65°	1403	1466	1585	1597	1592	1388
75°	576	615	595	511	466	619
85°	61	54	41	36	32	93
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5347.8	5347.8	5347.8	5347.8	5347.8
2.5°	5365.0	5329.2	5347.8	5343.9	5330.3
5°	5339.0	5306.8	5327.8	5321.8	5325.4
7.5°	5296.9	5267.4	5289.6	5288.5	5294.5
10°	5239.0	5209.2	5236.5	5241.5	5248.8
12.5°	5162.2	5137.6	5171.0	5180.8	5195.6
15°	5073.1	5051.0	5089.2	5110.3	5126.4
17.5°	4969.3	4950.7	5000.1	5020.1	5042.2
20°	4849.3	4835.9	4893.8	4912.4	4944.7
22.5°	4715.9	4708.5	4768.9	4797.4	4834.5
25°	4568.6	4570.0	4641.6	4675.2	4714.6
27.5°	4414.2	4416.7	4498.4	4545.1	4587.2
30°	4247.2	4254.6	4343.7	4401.9	4457.4
32.5°	4070.4	4085.2	4181.6	4260.9	4322.7
35°	3891.1	3908.3	4014.9	4113.6	4184.1
37.5°	3697.1	3725.5	3845.5	3963.0	4035.7
40°	3506.6	3535.0	3669.8	3799.6	3873.9
42.5°	3310.1	3345.9	3489.4	3634.0	3705.6
45°	3104.9	3146.7	3303.8	3452.2	3530.1
47.5°	2908.1	2945.3	3110.9	3265.6	3345.9
50°	2691.7	2738.7	2910.6	3072.6	3151.9
52.5°	2485.3	2528.5	2705.3	2871.2	2942.8
55°	2272.7	2320.8	2496.5	2653.4	2704.2
57.5°	2054.9	2113.1	2282.5	2413.7	2461.8
60°	1838.7	1896.6	2056.2	2163.9	2199.7
62.5°	1623.4	1685.4	1825.0	1896.6	1896.6
65°	1403.4	1466.5	1585.1	1597.4	1592.5
67.5°	1183.4	1246.5	1336.7	1314.3	1299.5
70°	969.4	1023.8	1077.0	1036.0	1001.6
72.5°	761.7	813.6	822.3	763.0	719.6
75°	576.1	614.6	594.7	510.8	466.2
77.5°	401.7	424.1	382.1	296.8	261.0
80°	252.2	262.1	205.2	144.6	121.1
82.5°	136.1	137.2	89.1	73.0	68.0
85°	60.7	54.4	40.7	35.8	32.2
87.5°	21.0	18.6	14.8	13.7	11.2
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	17.78	19.37	18.15	19.68	19.99	18.77	20.35	19.13	20.66	20.98
	3H	19.19	20.61	19.57	20.94	21.30	19.97	21.39	20.35	21.72	22.08
	4H	19.59	20.92	19.99	21.27	21.65	20.19	21.52	20.59	21.87	22.25
	6H	19.76	20.99	20.17	21.36	21.75	20.20	21.44	20.62	21.80	22.19
	8H	19.78	20.95	20.20	21.34	21.74	20.18	21.35	20.61	21.74	22.14
	12H	19.77	20.89	20.20	21.27	21.70	20.16	21.28	20.59	21.66	22.09
4H	2H	18.45	19.79	18.85	20.14	20.51	19.24	20.58	19.64	20.93	21.30
	3H	20.02	21.13	20.43	21.53	21.93	20.61	21.72	21.02	22.12	22.52
	4H	20.50	21.49	20.93	21.91	22.34	20.89	21.88	21.32	22.29	22.73
	6H	20.74	21.60	21.19	22.04	22.50	20.94	21.80	21.39	22.24	22.70
	8H	20.76	21.57	21.22	22.01	22.48	20.91	21.72	21.38	22.16	22.63
	12H	20.76	21.48	21.24	21.96	22.43	20.89	21.61	21.37	22.09	22.56
8H	4H	20.64	21.45	21.11	21.89	22.36	21.00	21.81	21.47	22.25	22.72
	6H	20.92	21.58	21.41	22.07	22.55	21.06	21.73	21.56	22.22	22.69
	8H	20.96	21.55	21.47	22.06	22.55	21.04	21.63	21.55	22.14	22.63
	12H	20.97	21.50	21.48	21.99	22.55	21.03	21.55	21.54	22.04	22.60
12H	4H	20.63	21.34	21.11	21.82	22.29	20.99	21.71	21.47	22.19	22.66
	6H	20.89	21.48	21.40	21.99	22.48	21.04	21.63	21.55	22.14	22.63
	8H	20.96	21.48	21.46	21.97	22.53	21.04	21.56	21.55	22.06	22.62