

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: P1499240

Luminaire Tested: MAE-G-4-120-2HI-LO-40-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2HI-LO-40-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

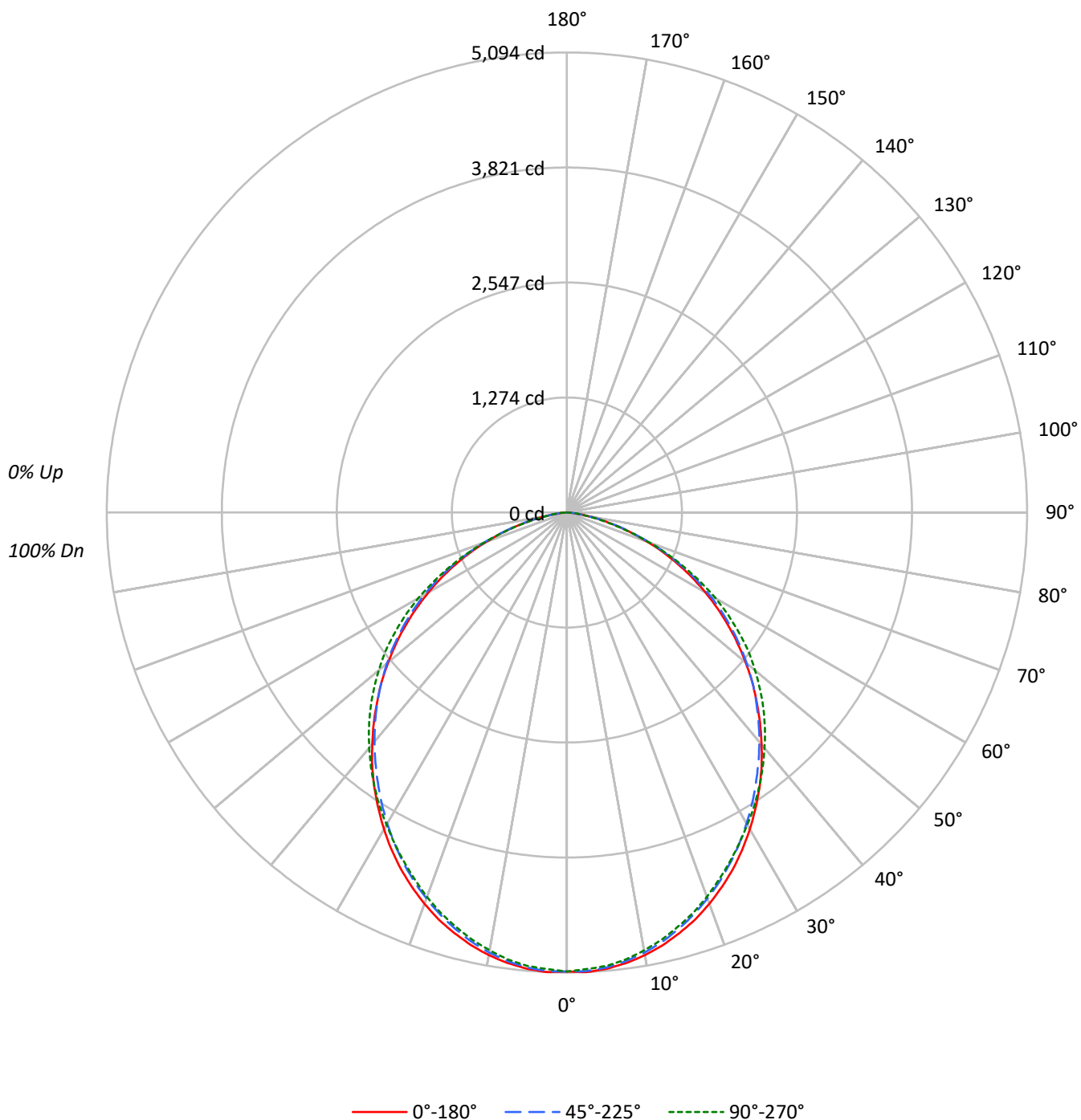
Lumens per Lamp: N/A
Luminaire Lumens: 12498.0 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.8
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	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	88	88	86
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	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	45	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	34	46	39	34	44	39	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6838	6838	6838
5°	6849	6830	6806
10°	6800	6760	6725
15°	6714	6650	6615
20°	6602	6512	6484
25°	6461	6354	6335
30°	6292	6180	6204
35°	6104	5994	6093
40°	5888	5820	5978
45°	5657	5640	5856
50°	5405	5442	5690
55°	5115	5201	5461
60°	4767	4895	5124
65°	4325	4470	4567
70°	3723	3849	3816
75°	2955	3025	2844
80°	1980	1958	1799
85°	991	1190	1447

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5856 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.5	3.8
10°-20°	1344.9	10.8
20°-30°	1975.3	15.8
30°-40°	2301.1	18.4
40°-50°	2306.9	18.5
50°-60°	1993.2	15.9
60°-70°	1381.4	11.1
70°-80°	613.4	4.9
80°-90°	103.4	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°	3798.7	30.4
0°-40°	6099.8	48.8
0°-60°	10399.8	83.2
0°-90°	12498.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12498.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5082	5082	5082	5082	5082	
5°	5071	5050	5057	5034	5039	481
15°	4820	4790	4774	4743	4749	1359
25°	4352	4316	4280	4255	4267	2003
35°	3716	3675	3649	3675	3710	2323
45°	2973	2942	2964	3034	3077	2294
55°	2181	2162	2217	2296	2328	1948
65°	1358	1361	1404	1422	1434	1345
75°	568	573	582	557	547	612
85°	64	69	77	89	94	97
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5082.4	5082.4	5082.4	5082.4	5082.4
2.5°	5093.7	5072.7	5082.4	5065.4	5060.5
5°	5070.9	5049.5	5056.7	5033.7	5038.9
7.5°	5031.8	5008.7	5010.9	4986.5	4992.4
10°	4976.9	4950.4	4947.7	4918.8	4922.6
12.5°	4907.2	4879.0	4870.2	4838.3	4845.6
15°	4819.9	4790.1	4773.8	4743.2	4748.6
17.5°	4724.6	4694.5	4667.3	4635.9	4647.3
20°	4610.7	4580.1	4548.1	4515.1	4528.7
22.5°	4485.4	4451.8	4420.3	4389.0	4399.8
25°	4351.9	4316.3	4279.8	4254.7	4267.2
27.5°	4206.3	4167.2	4133.0	4113.5	4130.8
30°	4050.1	4010.4	3977.5	3970.4	3993.3
32.5°	3885.6	3846.8	3816.8	3827.0	3858.3
35°	3716.0	3674.8	3649.1	3675.4	3709.8
37.5°	3539.9	3500.0	3483.1	3524.8	3560.8
40°	3352.2	3317.8	3313.7	3365.8	3403.6
42.5°	3164.5	3132.8	3141.3	3204.0	3245.0
45°	2972.8	2942.2	2964.3	3033.6	3077.3
47.5°	2783.6	2751.3	2785.2	2860.8	2900.0
50°	2582.0	2557.0	2599.8	2678.2	2718.1
52.5°	2381.5	2358.7	2410.4	2492.3	2537.3
55°	2180.7	2162.3	2217.1	2296.4	2328.1
57.5°	1975.6	1965.6	2022.0	2089.9	2119.5
60°	1771.5	1763.4	1819.0	1878.3	1904.3
62.5°	1565.3	1560.8	1613.9	1657.5	1670.0
65°	1358.5	1360.9	1403.9	1421.9	1434.5
67.5°	1156.9	1157.1	1193.9	1205.1	1206.1
70°	946.4	953.4	978.4	977.0	970.1
72.5°	754.9	757.7	772.3	759.2	748.3
75°	568.5	572.9	581.8	556.7	547.1
77.5°	399.1	408.9	402.3	379.6	370.8
80°	255.5	265.6	252.7	239.3	232.2
82.5°	141.9	147.6	141.0	151.1	155.3
85°	64.2	68.7	77.1	89.2	93.7
87.5°	21.8	26.0	32.0	33.6	31.6
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	17.60	19.19	17.97	19.50	19.81	18.04	19.62	18.41	19.94	20.25
	3H	19.06	20.48	19.43	20.81	21.17	19.42	20.85	19.80	21.17	21.53
	4H	19.47	20.81	19.87	21.16	21.53	19.78	21.11	20.17	21.46	21.84
	6H	19.67	20.90	20.08	21.27	21.66	19.92	21.15	20.33	21.52	21.91
	8H	19.69	20.87	20.12	21.26	21.66	19.94	21.11	20.36	21.50	21.90
	12H	19.69	20.82	20.12	21.20	21.63	19.94	21.07	20.37	21.45	21.88
4H	2H	18.19	19.53	18.59	19.87	20.25	18.55	19.88	18.94	20.23	20.61
	3H	19.81	20.92	20.22	21.32	21.72	20.11	21.22	20.52	21.61	22.01
	4H	20.31	21.31	20.75	21.73	22.16	20.54	21.54	20.97	21.95	22.39
	6H	20.59	21.45	21.04	21.90	22.35	20.75	21.61	21.20	22.06	22.51
	8H	20.62	21.43	21.09	21.88	22.34	20.78	21.59	21.24	22.03	22.50
	12H	20.63	21.36	21.11	21.83	22.30	20.80	21.53	21.29	22.01	22.48
8H	4H	20.49	21.30	20.95	21.74	22.21	20.69	21.50	21.15	21.95	22.41
	6H	20.81	21.48	21.31	21.97	22.45	20.94	21.61	21.44	22.10	22.58
	8H	20.87	21.47	21.38	21.98	22.46	21.00	21.60	21.51	22.11	22.60
	12H	20.90	21.43	21.41	21.92	22.48	21.05	21.58	21.56	22.07	22.64
12H	4H	20.48	21.21	20.96	21.68	22.15	20.69	21.41	21.17	21.89	22.36
	6H	20.80	21.40	21.31	21.91	22.40	20.93	21.53	21.45	22.04	22.53
	8H	20.89	21.42	21.40	21.91	22.48	21.02	21.55	21.53	22.04	22.61