

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: P1499249

Luminaire Tested: MAE-G-4-120-2HI-STD-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499249
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-STD-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

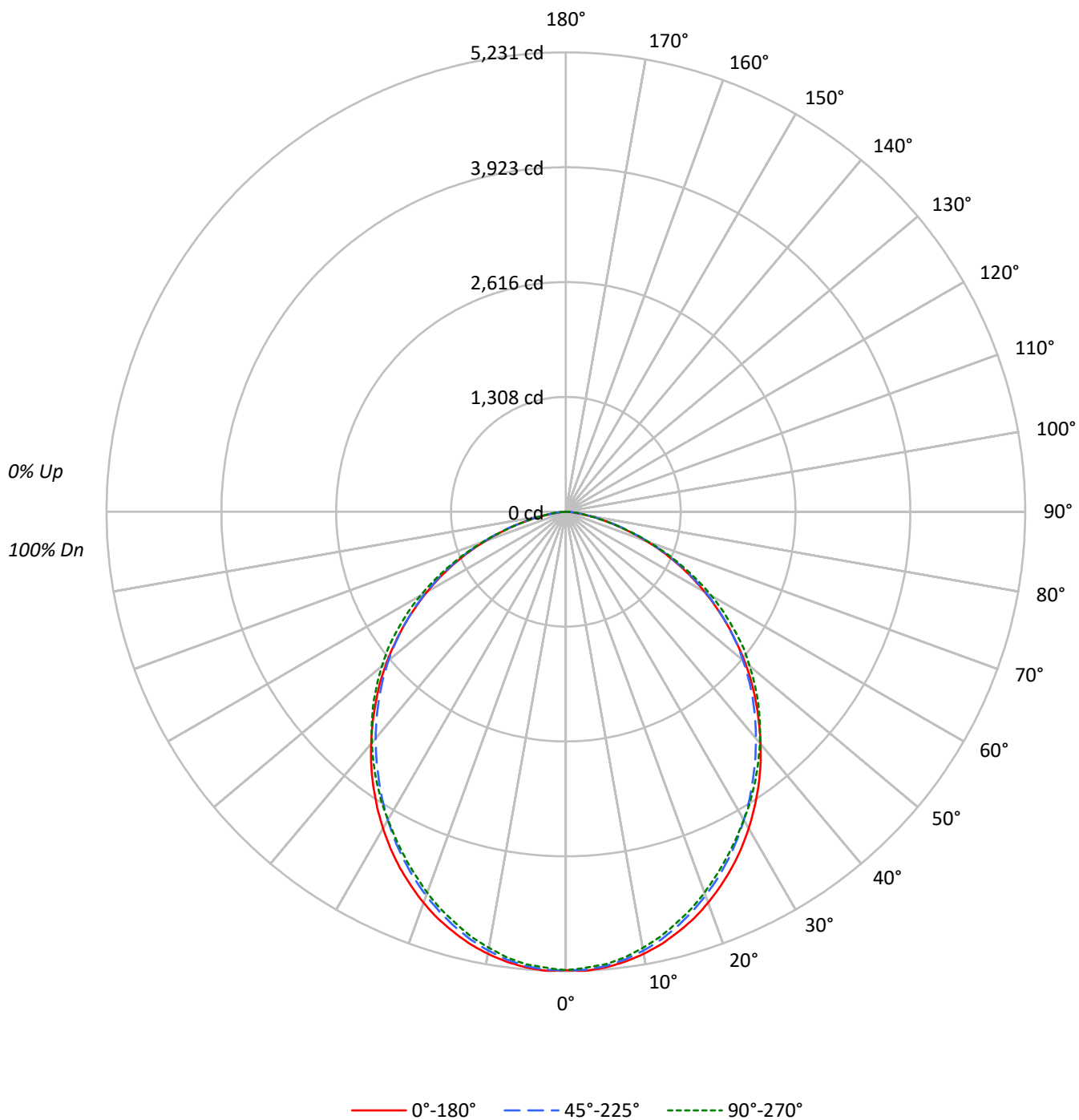
Lumens per Lamp: N/A
Luminaire Lumens: 12763.0 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 157.1
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

TEST NUMBER: P1499249

CATALOG NUMBER: MAE-G-4-120-2HI-STD-30-90-WDDCPH

Luminous Intensity Polar Plot



TEST NUMBER: P1499249

CATALOG NUMBER: MAE-G-4-120-2HI-STD-30-90-WDDCPH

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	92	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	45	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7024	7024	7024
5°	7035	7013	6985
10°	6985	6935	6890
15°	6898	6812	6759
20°	6784	6660	6610
25°	6641	6488	6442
30°	6470	6300	6294
35°	6278	6102	6167
40°	6058	5916	6037
45°	5822	5726	5899
50°	5565	5517	5720
55°	5270	5267	5487
60°	4914	4954	5162
65°	4464	4528	4644
70°	3849	3930	3948
75°	3062	3143	3042
80°	2064	2120	2053
85°	1048	1365	1711

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5899 cd/sqm

TEST NUMBER: P1499249

CATALOG NUMBER: MAE-G-4-120-2HI-STD-30-90-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.2	3.8
10°-20°	1377.7	10.8
20°-30°	2018.3	15.8
30°-40°	2345.3	18.4
40°-50°	2345.6	18.4
50°-60°	2023.1	15.9
60°-70°	1407.6	11.0
70°-80°	639.3	5.0
80°-90°	114.7	0.9
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°	3887.2	30.5
0°-40°	6232.6	48.8
0°-60°	10601.3	83.1
0°-90°	12763.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12763.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5220	5220	5220	5220	5220	
5°	5208	5188	5192	5165	5171	494
15°	4952	4919	4890	4848	4852	1396
25°	4473	4428	4370	4330	4340	2059
35°	3822	3766	3715	3726	3755	2389
45°	3060	3014	3009	3063	3100	2361
55°	2246	2213	2245	2311	2339	2006
65°	1402	1391	1422	1445	1459	1387
75°	589	587	605	591	585	634
85°	68	75	88	104	111	101
90°	0	0	0	0	0	

TEST NUMBER: P1499249

CATALOG NUMBER: MAE-G-4-120-2HI-STD-30-90-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5220.4	5220.4	5220.4	5220.4	5220.4
2.5°	5231.4	5212.4	5220.4	5199.8	5196.9
5°	5208.4	5188.1	5192.4	5165.2	5171.4
7.5°	5168.3	5145.7	5143.2	5113.1	5119.4
10°	5112.3	5085.4	5075.8	5039.4	5042.9
12.5°	5041.0	5011.2	4992.8	4951.3	4957.7
15°	4952.0	4919.3	4890.3	4848.1	4852.3
17.5°	4854.3	4819.8	4777.1	4732.8	4742.7
20°	4738.2	4701.3	4651.1	4604.9	4616.1
22.5°	4609.9	4568.6	4517.2	4471.9	4479.4
25°	4473.0	4428.2	4370.0	4330.4	4339.5
27.5°	4324.2	4274.3	4216.5	4182.3	4195.9
30°	4164.3	4112.7	4054.8	4032.7	4051.2
32.5°	3996.0	3943.8	3888.5	3883.1	3909.4
35°	3822.0	3766.5	3715.0	3725.5	3754.6
37.5°	3641.1	3586.9	3543.3	3569.1	3599.4
40°	3449.2	3399.5	3368.5	3404.5	3436.9
42.5°	3256.5	3209.4	3190.9	3237.8	3272.7
45°	3059.9	3013.5	3009.0	3062.9	3100.1
47.5°	2865.0	2817.6	2825.6	2885.7	2919.1
50°	2658.7	2618.1	2635.7	2699.3	2732.7
52.5°	2451.9	2414.5	2442.4	2509.7	2548.9
55°	2246.4	2212.8	2245.3	2311.3	2339.0
57.5°	2035.7	2011.1	2046.8	2104.4	2131.0
60°	1826.0	1803.9	1840.9	1893.4	1918.2
62.5°	1614.1	1596.0	1633.6	1675.0	1689.3
65°	1402.1	1391.0	1422.3	1444.6	1458.8
67.5°	1194.2	1182.9	1212.7	1231.4	1234.9
70°	978.5	974.4	999.1	1006.6	1003.5
72.5°	780.9	775.1	794.5	791.9	784.8
75°	589.1	587.3	604.6	590.7	585.2
77.5°	414.8	420.8	424.9	412.7	408.3
80°	266.4	276.2	273.6	269.3	265.0
82.5°	149.0	156.4	158.2	174.1	180.4
85°	67.9	74.8	88.4	104.4	110.8
87.5°	23.0	28.7	37.0	39.4	37.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1499249

CATALOG NUMBER: MAE-G-4-120-2HI-STD-30-90-WDDCPH

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	17.70	19.28	18.06	19.60	19.91	18.02	19.60	18.38	19.91	20.23
	3H	19.16	20.58	19.53	20.91	21.27	19.44	20.87	19.82	21.20	21.56
	4H	19.58	20.92	19.98	21.26	21.64	19.83	21.17	20.23	21.52	21.89
	6H	19.78	21.02	20.19	21.38	21.77	20.01	21.25	20.42	21.61	22.00
	8H	19.81	20.99	20.23	21.37	21.77	20.04	21.22	20.47	21.61	22.01
	12H	19.80	20.93	20.23	21.31	21.74	20.06	21.19	20.49	21.57	22.00
4H	2H	18.27	19.61	18.67	19.95	20.33	18.53	19.86	18.92	20.21	20.59
	3H	19.90	21.01	20.31	21.41	21.81	20.14	21.25	20.55	21.65	22.05
	4H	20.41	21.41	20.84	21.82	22.26	20.61	21.61	21.04	22.03	22.46
	6H	20.69	21.56	21.14	22.00	22.46	20.86	21.73	21.32	22.18	22.63
	8H	20.73	21.54	21.19	21.98	22.45	20.92	21.73	21.38	22.17	22.64
	12H	20.74	21.47	21.22	21.94	22.41	20.96	21.68	21.44	22.16	22.63
8H	4H	20.59	21.40	21.05	21.85	22.31	20.78	21.59	21.24	22.03	22.50
	6H	20.92	21.59	21.42	22.08	22.56	21.08	21.75	21.57	22.24	22.72
	8H	20.99	21.59	21.50	22.10	22.59	21.16	21.76	21.67	22.27	22.76
	12H	21.02	21.55	21.53	22.04	22.61	21.24	21.77	21.74	22.26	22.82
12H	4H	20.59	21.31	21.07	21.79	22.26	20.77	21.50	21.25	21.98	22.45
	6H	20.92	21.52	21.43	22.03	22.52	21.07	21.67	21.59	22.18	22.67
	8H	21.02	21.55	21.53	22.04	22.60	21.19	21.72	21.70	22.21	22.78