

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: P1499211

Luminaire Tested: MAE-G-4-120-2HI-HI-35

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499211
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-HI-35
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

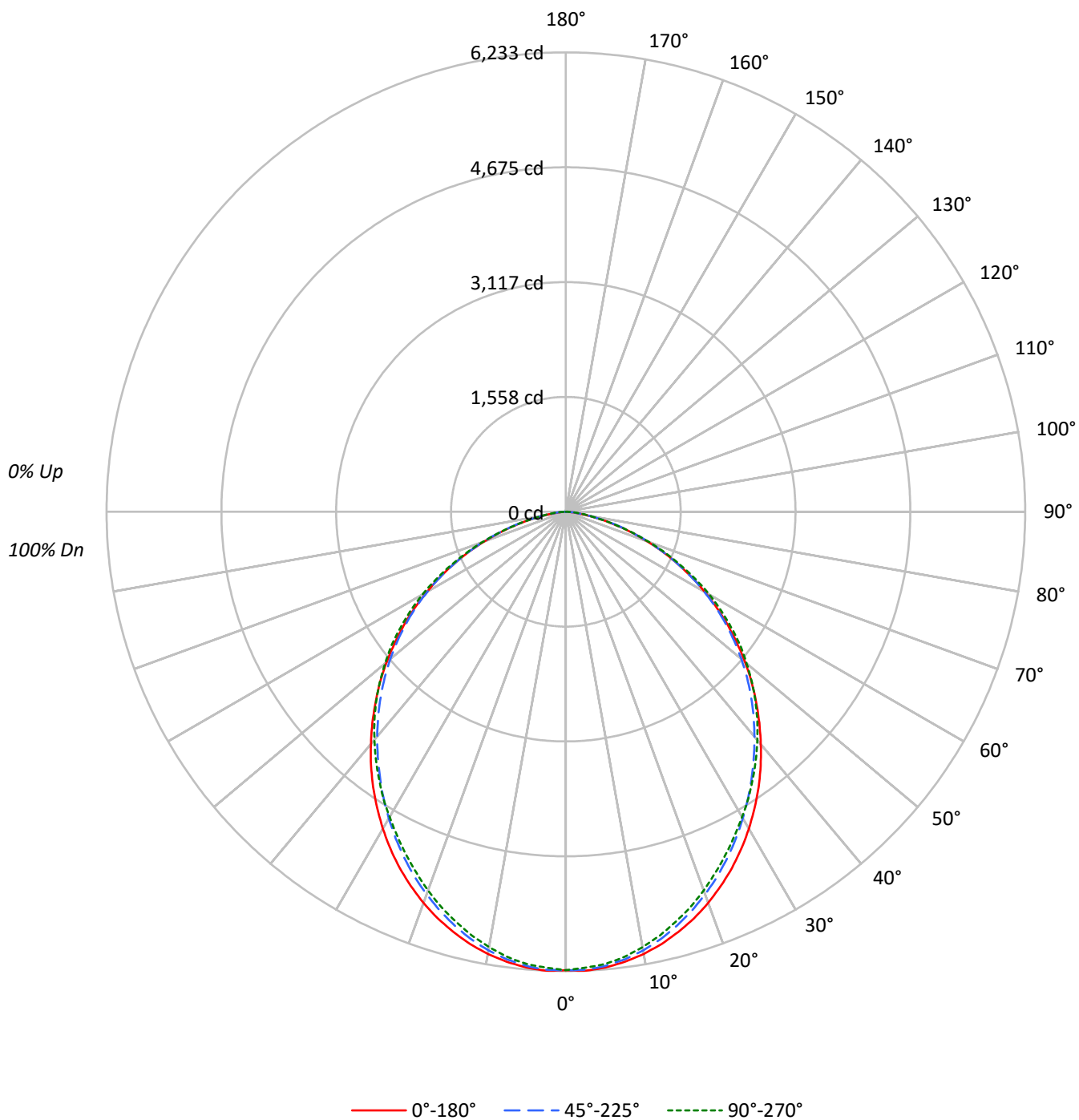
Lumens per Lamp: N/A
Luminaire Lumens: 15141.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 177.5
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	88	85
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53	47	43	41
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8369	8369	8369
5°	8382	8355	8317
10°	8323	8256	8193
15°	8221	8100	8022
20°	8087	7909	7830
25°	7917	7696	7618
30°	7715	7464	7429
35°	7488	7222	7266
40°	7228	6994	7100
45°	6948	6761	6925
50°	6644	6509	6704
55°	6293	6209	6427
60°	5871	5836	6059
65°	5338	5340	5492
70°	4609	4663	4729
75°	3673	3778	3734
80°	2487	2624	2632
85°	1278	1754	2238

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6948 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.0	3.9
10°-20°	1638.3	10.8
20°-30°	2395.5	15.8
30°-40°	2778.2	18.3
40°-50°	2773.4	18.3
50°-60°	2389.0	15.8
60°-70°	1667.2	11.0
70°-80°	770.1	5.1
80°-90°	144.4	1.0
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°	4618.7	30.5
0°-40°	7396.9	48.9
0°-60°	12559.3	82.9
0°-90°	15141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15141.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6220	6220	6220	6220	6220	
5°	6206	6183	6186	6150	6158	589
15°	5902	5861	5815	5755	5759	1663
25°	5333	5272	5184	5124	5132	2454
35°	4559	4481	4397	4394	4424	2849
45°	3652	3583	3553	3602	3639	2817
55°	2682	2629	2647	2711	2740	2396
65°	1677	1651	1677	1707	1725	1659
75°	707	699	727	721	718	760
85°	83	93	114	136	145	123
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6220.4	6220.4	6220.4	6220.4	6220.4
2.5°	6233.0	6212.8	6220.4	6193.2	6191.5
5°	6205.9	6183.3	6185.7	6150.0	6158.2
7.5°	6158.1	6132.2	6125.1	6084.7	6092.3
10°	6091.9	6060.0	6042.5	5992.9	5996.8
12.5°	6007.1	5970.8	5940.4	5883.3	5889.8
15°	5901.6	5860.8	5815.3	5755.3	5759.0
17.5°	5785.3	5741.0	5677.0	5613.3	5623.7
20°	5647.7	5599.0	5523.8	5457.5	5468.4
22.5°	5495.4	5440.1	5361.6	5295.8	5301.8
25°	5332.6	5271.6	5183.8	5124.1	5131.6
27.5°	5155.8	5087.8	4998.3	4945.0	4957.5
30°	4965.8	4894.4	4804.0	4764.4	4781.9
32.5°	4765.7	4692.6	4604.7	4583.9	4610.1
35°	4558.8	4480.8	4396.9	4394.5	4423.5
37.5°	4343.2	4266.6	4191.2	4206.5	4236.7
40°	4115.2	4043.3	3982.1	4009.4	4042.1
42.5°	3885.8	3816.7	3770.2	3810.0	3845.3
45°	3651.7	3583.0	3553.3	3601.8	3639.4
47.5°	3419.0	3349.8	3335.1	3391.0	3424.7
50°	3173.9	3112.2	3109.4	3169.9	3202.9
52.5°	2926.7	2869.6	2880.1	2945.2	2985.6
55°	2682.5	2629.4	2646.8	2711.4	2740.0
57.5°	2431.4	2389.3	2411.9	2469.6	2497.9
60°	2181.6	2142.8	2168.8	2223.9	2251.7
62.5°	1928.9	1895.2	1925.0	1971.3	1989.3
65°	1676.6	1651.3	1677.2	1707.0	1725.0
67.5°	1428.2	1404.5	1432.8	1461.4	1467.9
70°	1171.7	1156.8	1185.2	1202.2	1202.1
72.5°	935.5	920.9	948.0	954.4	949.6
75°	706.6	698.7	726.8	720.8	718.2
77.5°	498.4	502.1	516.8	512.3	511.1
80°	321.0	332.3	338.7	342.0	339.7
82.5°	180.4	190.7	200.5	224.3	233.7
85°	82.8	92.9	113.6	135.8	145.0
87.5°	27.9	35.9	47.7	51.3	48.6
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	18.31	19.89	18.67	20.21	20.52	18.53	20.12	18.90	20.43	20.74
	3H	19.77	21.20	20.15	21.52	21.89	20.00	21.42	20.38	21.75	22.11
	4H	20.20	21.54	20.60	21.88	22.26	20.41	21.75	20.81	22.10	22.48
	6H	20.41	21.64	20.82	22.01	22.40	20.62	21.86	21.03	22.22	22.62
	8H	20.43	21.61	20.86	22.00	22.40	20.67	21.85	21.09	22.24	22.64
	12H	20.43	21.56	20.86	21.94	22.37	20.69	21.82	21.12	22.20	22.63
4H	2H	18.87	20.20	19.27	20.55	20.93	19.05	20.39	19.45	20.73	21.11
	3H	20.51	21.62	20.92	22.02	22.42	20.70	21.81	21.11	22.21	22.61
	4H	21.02	22.02	21.45	22.43	22.87	21.21	22.21	21.64	22.62	23.06
	6H	21.30	22.18	21.76	22.62	23.07	21.50	22.37	21.95	22.81	23.27
	8H	21.35	22.16	21.81	22.60	23.07	21.56	22.38	22.03	22.82	23.29
	12H	21.36	22.09	21.84	22.57	23.04	21.62	22.34	22.10	22.82	23.29
8H	4H	21.21	22.02	21.67	22.46	22.93	21.38	22.19	21.84	22.64	23.10
	6H	21.55	22.22	22.04	22.71	23.19	21.73	22.40	22.22	22.89	23.36
	8H	21.62	22.22	22.13	22.73	23.22	21.83	22.43	22.34	22.94	23.42
	12H	21.65	22.19	22.16	22.68	23.24	21.92	22.45	22.43	22.94	23.50
12H	4H	21.21	21.93	21.69	22.41	22.88	21.38	22.10	21.86	22.58	23.05
	6H	21.55	22.15	22.06	22.66	23.15	21.72	22.32	22.23	22.83	23.32
	8H	21.65	22.18	22.16	22.68	23.24	21.86	22.39	22.37	22.88	23.45