

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: P1499412

Luminaire Tested: MAE-G-4-120-2STD-HI-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499412
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-4-120-2STD-HI-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

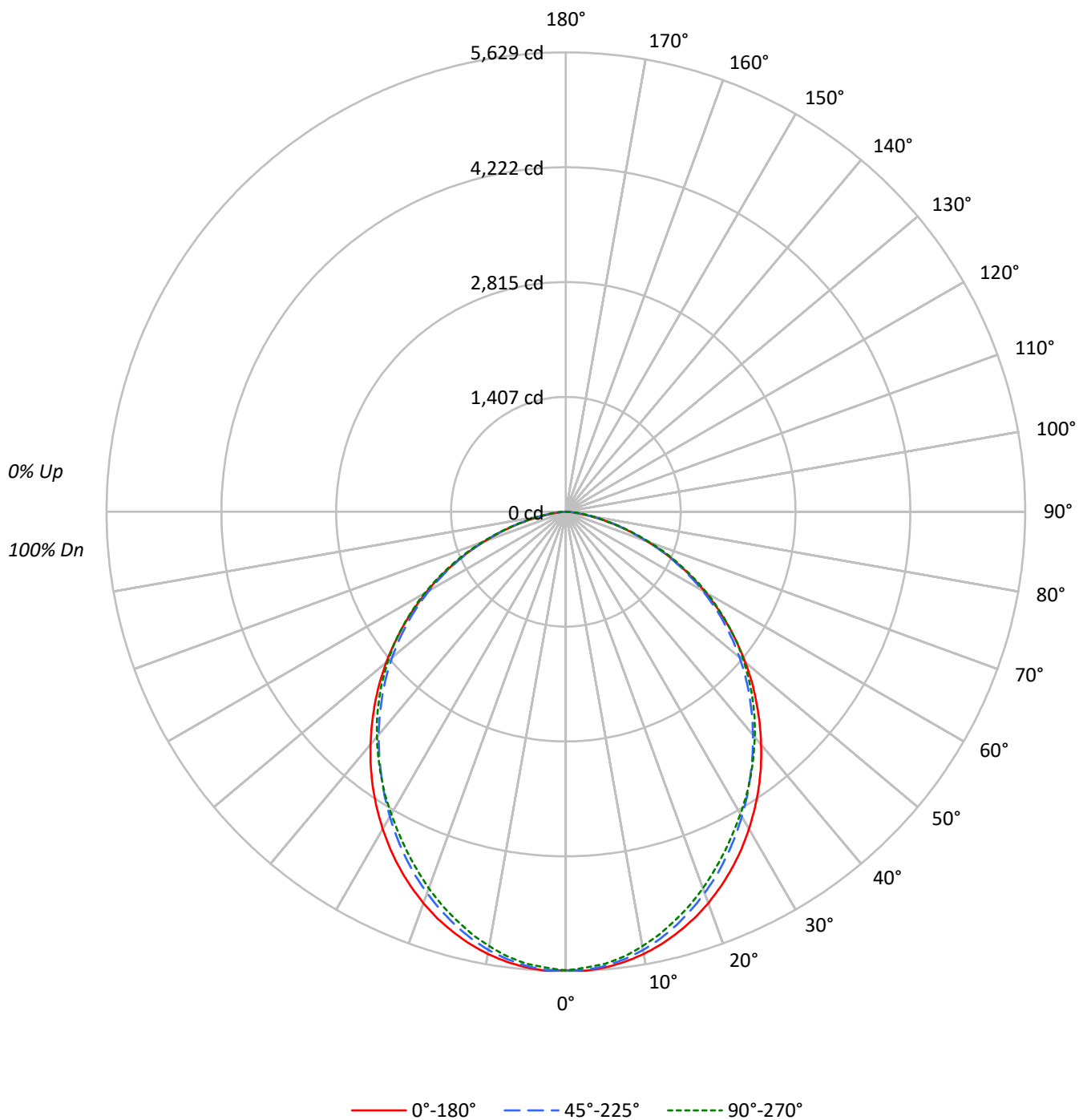
Lumens per Lamp: N/A
Luminaire Lumens: 13613.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 157.2
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	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	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	56		66	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	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7559	7559	7559
5°	7570	7544	7507
10°	7518	7449	7385
15°	7426	7301	7216
20°	7307	7119	7029
25°	7154	6918	6826
30°	6974	6701	6644
35°	6770	6477	6485
40°	6537	6265	6325
45°	6286	6050	6157
50°	6013	5817	5951
55°	5696	5545	5702
60°	5317	5209	5387
65°	4839	4770	4921
70°	4185	4192	4295
75°	3340	3444	3475
80°	2273	2462	2551
85°	1179	1703	2211

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6286 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.1	3.9
10°-20°	1476.6	10.8
20°-30°	2154.7	15.8
30°-40°	2494.0	18.3
40°-50°	2484.8	18.3
50°-60°	2137.4	15.7
60°-70°	1496.4	11.0
70°-80°	703.4	5.2
80°-90°	137.6	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°	4159.4	30.6
0°-40°	6653.4	48.9
0°-60°	11275.6	82.8
0°-90°	13613.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13613.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5618	5618	5618	5618	5618	
5°	5605	5586	5586	5550	5558	532
15°	5331	5293	5242	5178	5180	1503
25°	4819	4757	4660	4595	4598	2218
35°	4122	4040	3943	3927	3948	2576
45°	3304	3229	3179	3208	3236	2548
55°	2428	2368	2364	2409	2431	2168
65°	1520	1486	1498	1528	1546	1504
75°	642	630	662	667	668	691
85°	76	88	110	133	143	113
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5618.4	5618.4	5618.4	5618.4	5618.4
2.5°	5629.4	5613.2	5618.4	5591.3	5591.5
5°	5605.1	5586.3	5585.7	5550.5	5558.5
7.5°	5562.1	5539.4	5529.2	5488.5	5495.4
10°	5502.7	5473.9	5452.5	5402.0	5405.2
12.5°	5426.3	5392.8	5357.4	5298.4	5303.4
15°	5331.4	5292.9	5241.5	5178.2	5180.3
17.5°	5226.7	5183.5	5113.4	5045.7	5053.5
20°	5103.1	5054.6	4972.0	4901.7	4909.2
22.5°	4965.9	4910.2	4823.1	4752.7	4755.1
25°	4819.0	4756.9	4660.1	4594.7	4598.2
27.5°	4659.9	4590.5	4490.3	4430.4	4438.0
30°	4488.8	4415.1	4313.1	4265.0	4276.6
32.5°	4308.6	4232.3	4132.2	4100.0	4118.8
35°	4121.9	4040.4	3943.4	3927.2	3948.2
37.5°	3927.2	3846.8	3756.5	3756.1	3777.7
40°	3722.0	3645.0	3567.0	3577.0	3601.0
42.5°	3514.9	3440.2	3375.3	3396.4	3422.2
45°	3303.7	3229.0	3179.3	3208.3	3235.9
47.5°	3093.0	3018.5	2982.6	3018.3	3043.1
50°	2872.4	2804.1	2779.2	2819.6	2842.9
52.5°	2648.3	2584.9	2573.2	2617.8	2648.3
55°	2428.3	2368.0	2363.7	2409.1	2430.8
57.5°	2201.5	2151.5	2153.3	2195.1	2217.3
60°	1975.8	1929.1	1935.7	1978.4	2001.8
62.5°	1747.5	1705.7	1718.5	1757.4	1774.8
65°	1520.0	1485.8	1498.4	1528.4	1545.7
67.5°	1295.0	1263.8	1282.7	1314.5	1322.6
70°	1063.7	1040.7	1065.6	1088.5	1091.7
72.5°	849.7	829.2	857.3	872.2	871.2
75°	642.5	630.1	662.4	666.8	668.4
77.5°	454.2	454.2	476.7	482.0	484.8
80°	293.3	303.1	317.8	328.7	329.2
82.5°	165.6	176.4	192.4	218.5	228.7
85°	76.4	87.5	110.3	133.3	143.2
87.5°	25.8	34.2	46.6	50.4	47.9
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	17.96	19.54	18.32	19.85	20.17	18.08	19.67	18.45	19.98	20.29
	3H	19.43	20.85	19.80	21.18	21.54	19.59	21.01	19.97	21.34	21.70
	4H	19.86	21.19	20.25	21.54	21.92	20.03	21.37	20.43	21.72	22.10
	6H	20.07	21.30	20.48	21.67	22.06	20.27	21.51	20.69	21.88	22.27
	8H	20.10	21.28	20.52	21.66	22.06	20.33	21.51	20.76	21.90	22.30
	12H	20.10	21.23	20.53	21.61	22.04	20.37	21.50	20.80	21.88	22.31
4H	2H	18.50	19.84	18.90	20.19	20.57	18.60	19.94	19.00	20.29	20.67
	3H	20.15	21.27	20.56	21.66	22.06	20.30	21.41	20.71	21.81	22.21
	4H	20.67	21.67	21.10	22.08	22.52	20.84	21.85	21.27	22.26	22.70
	6H	20.96	21.83	21.41	22.27	22.73	21.17	22.04	21.62	22.48	22.94
	8H	21.00	21.82	21.47	22.26	22.73	21.25	22.07	21.72	22.51	22.98
	12H	21.02	21.75	21.50	22.22	22.69	21.32	22.05	21.80	22.52	22.99
8H	4H	20.86	21.68	21.32	22.12	22.59	21.02	21.84	21.48	22.28	22.75
	6H	21.21	21.89	21.71	22.37	22.85	21.41	22.09	21.91	22.58	23.05
	8H	21.29	21.89	21.80	22.40	22.88	21.54	22.14	22.05	22.65	23.14
	12H	21.33	21.86	21.83	22.35	22.91	21.65	22.18	22.16	22.67	23.23
12H	4H	20.86	21.59	21.35	22.07	22.54	21.02	21.75	21.50	22.23	22.70
	6H	21.22	21.82	21.73	22.33	22.82	21.41	22.02	21.92	22.52	23.01
	8H	21.33	21.86	21.84	22.35	22.91	21.58	22.11	22.08	22.60	23.16