

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: P1499298

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499298
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-4-120-2LO-HI-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

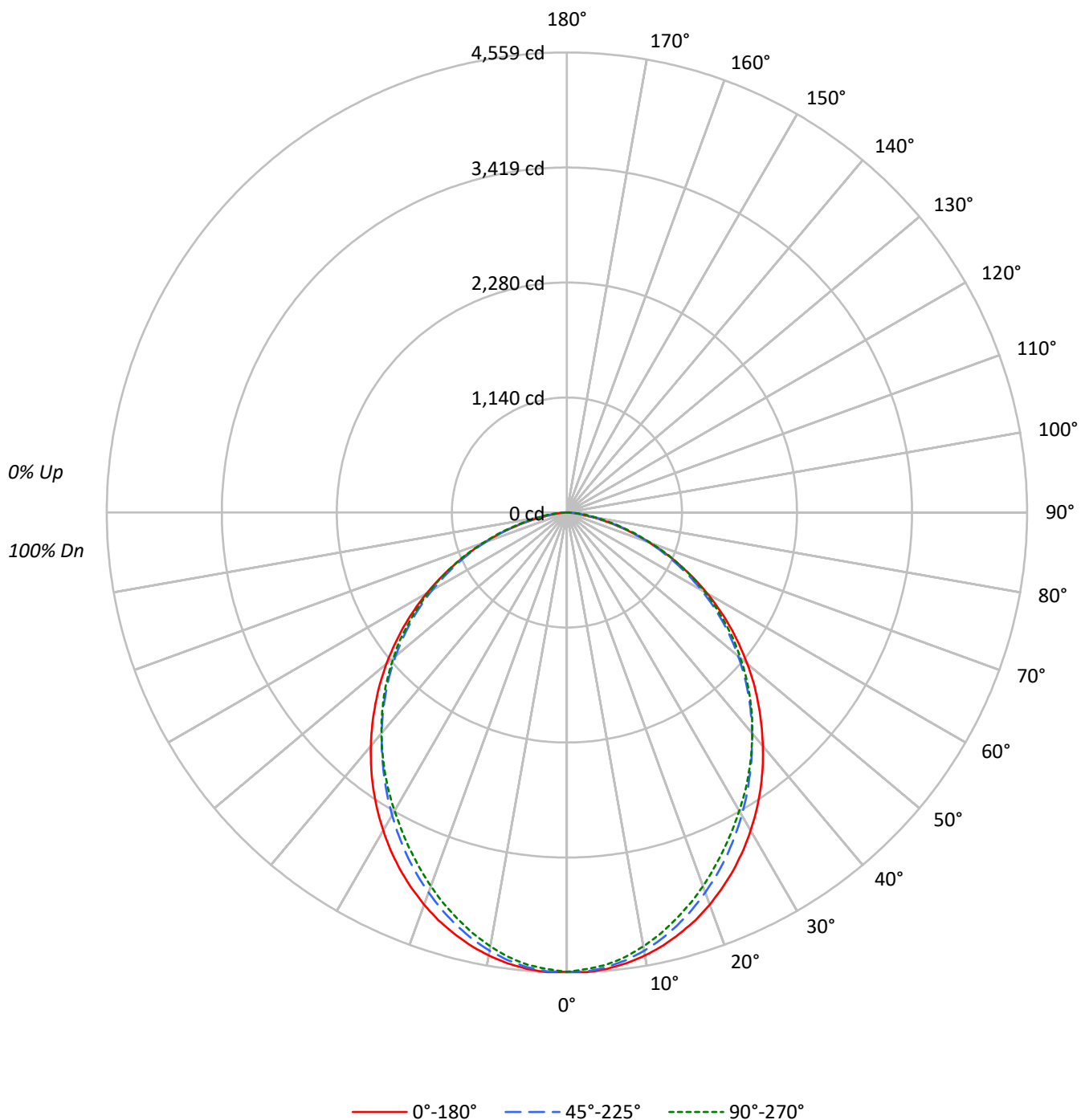
Lumens per Lamp: N/A
Luminaire Lumens: 10953.0 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.9
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	84	79	87	82	78		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	60	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°	6124	6124	6124
5°	6132	6109	6076
10°	6090	6026	5964
15°	6017	5896	5810
20°	5922	5738	5643
25°	5800	5566	5465
30°	5656	5381	5304
35°	5493	5193	5162
40°	5306	5013	5020
45°	5104	4833	4872
50°	4884	4640	4697
55°	4629	4417	4497
60°	4324	4146	4262
65°	3941	3802	3940
70°	3415	3373	3506
75°	2732	2826	2935
80°	1871	2104	2271
85°	988	1521	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5104 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.5	3.9
10°-20°	1192.4	10.9
20°-30°	1734.8	15.8
30°-40°	2002.1	18.3
40°-50°	1989.0	18.2
50°-60°	1707.4	15.6
60°-70°	1200.9	11.0
70°-80°	579.0	5.3
80°-90°	119.9	1.1
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°	3354.7	30.6
0°-40°	5356.8	48.9
0°-60°	9053.1	82.7
0°-90°	10953.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10953.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4551	4551	4551	4551	4551	
5°	4540	4527	4523	4491	4498	431
15°	4320	4286	4233	4171	4171	1218
25°	3907	3848	3749	3682	3681	1798
35°	3344	3265	3161	3132	3142	2090
45°	2682	2607	2540	2546	2561	2069
55°	1974	1910	1883	1904	1917	1762
65°	1238	1197	1194	1222	1238	1224
75°	526	509	544	559	565	565
85°	64	75	98	121	130	93
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4551.2	4551.2	4551.2	4551.2	4551.2
2.5°	4559.4	4549.0	4551.2	4526.2	4528.2
5°	4540.2	4526.7	4523.2	4491.0	4498.3
7.5°	4505.4	4488.1	4475.2	4437.2	4443.0
10°	4457.7	4434.6	4410.6	4362.9	4365.1
12.5°	4396.1	4368.0	4330.0	4273.6	4276.6
15°	4319.8	4286.5	4232.7	4170.8	4171.0
17.5°	4235.2	4196.6	4125.3	4058.3	4062.9
20°	4135.9	4091.3	4007.1	3937.9	3941.2
22.5°	4025.3	3973.5	3883.9	3813.6	3812.2
25°	3906.6	3847.9	3749.0	3682.2	3681.3
27.5°	3778.4	3712.6	3608.7	3546.1	3548.1
30°	3640.3	3569.8	3463.3	3409.5	3413.9
32.5°	3495.1	3421.0	3315.5	3273.4	3283.0
35°	3344.0	3264.9	3161.3	3131.7	3142.5
37.5°	3186.3	3108.0	3008.7	2991.3	3002.2
40°	3020.8	2944.3	2854.2	2845.1	2858.0
42.5°	2853.3	2778.4	2698.6	2698.1	2712.0
45°	2682.5	2607.0	2539.7	2546.0	2560.6
47.5°	2511.3	2436.8	2380.9	2392.3	2405.7
50°	2333.3	2263.2	2216.7	2232.6	2243.9
52.5°	2151.0	2085.7	2051.1	2070.4	2088.2
55°	1973.5	1910.0	1882.9	1904.2	1916.9
57.5°	1789.8	1735.1	1714.3	1736.0	1750.3
60°	1606.8	1555.3	1540.6	1566.9	1583.9
62.5°	1421.8	1374.5	1368.2	1396.3	1411.6
65°	1237.9	1196.8	1194.2	1222.1	1237.5
67.5°	1054.9	1018.2	1025.4	1058.3	1067.3
70°	868.0	838.2	857.4	884.9	891.3
72.5°	693.9	668.6	695.8	718.5	721.8
75°	525.6	509.2	543.6	558.9	564.6
77.5°	372.6	368.7	397.8	413.3	420.1
80°	241.5	248.9	271.5	289.7	293.1
82.5°	137.3	147.7	169.3	195.8	206.1
85°	64.0	75.1	98.5	120.6	130.4
87.5°	21.5	29.6	41.8	45.7	43.6
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	17.23	18.81	17.59	19.12	19.44	17.20	18.79	17.57	19.10	19.42
	3H	18.71	20.13	19.08	20.46	20.82	18.77	20.20	19.15	20.53	20.89
	4H	19.14	20.48	19.54	20.83	21.20	19.27	20.60	19.66	20.95	21.33
	6H	19.36	20.60	19.77	20.96	21.35	19.56	20.79	19.97	21.16	21.55
	8H	19.39	20.57	19.81	20.96	21.36	19.64	20.82	20.06	21.20	21.60
	12H	19.39	20.52	19.82	20.90	21.33	19.69	20.82	20.12	21.20	21.63
4H	2H	17.75	19.09	18.15	19.44	19.82	17.74	19.08	18.14	19.42	19.80
	3H	19.42	20.53	19.83	20.93	21.33	19.50	20.61	19.91	21.01	21.41
	4H	19.94	20.94	20.37	21.36	21.79	20.10	21.10	20.53	21.51	21.95
	6H	20.24	21.11	20.69	21.55	22.01	20.48	21.36	20.94	21.80	22.26
	8H	20.29	21.10	20.75	21.55	22.01	20.59	21.41	21.05	21.85	22.32
	12H	20.30	21.04	20.79	21.51	21.98	20.68	21.41	21.16	21.89	22.36
8H	4H	20.14	20.96	20.60	21.40	21.87	20.29	21.10	20.75	21.55	22.01
	6H	20.51	21.18	21.00	21.67	22.15	20.75	21.42	21.24	21.91	22.39
	8H	20.59	21.19	21.10	21.70	22.19	20.91	21.51	21.42	22.02	22.51
	12H	20.63	21.16	21.14	21.66	22.22	21.05	21.58	21.55	22.07	22.63
12H	4H	20.15	20.88	20.63	21.36	21.83	20.29	21.02	20.77	21.49	21.96
	6H	20.52	21.12	21.03	21.63	22.12	20.75	21.36	21.26	21.87	22.35
	8H	20.64	21.17	21.14	21.66	22.22	20.95	21.49	21.46	21.98	22.54

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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