

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: P1499634

Luminaire Tested: MAE-G-4-120-3LO-STD-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-3LO-STD-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

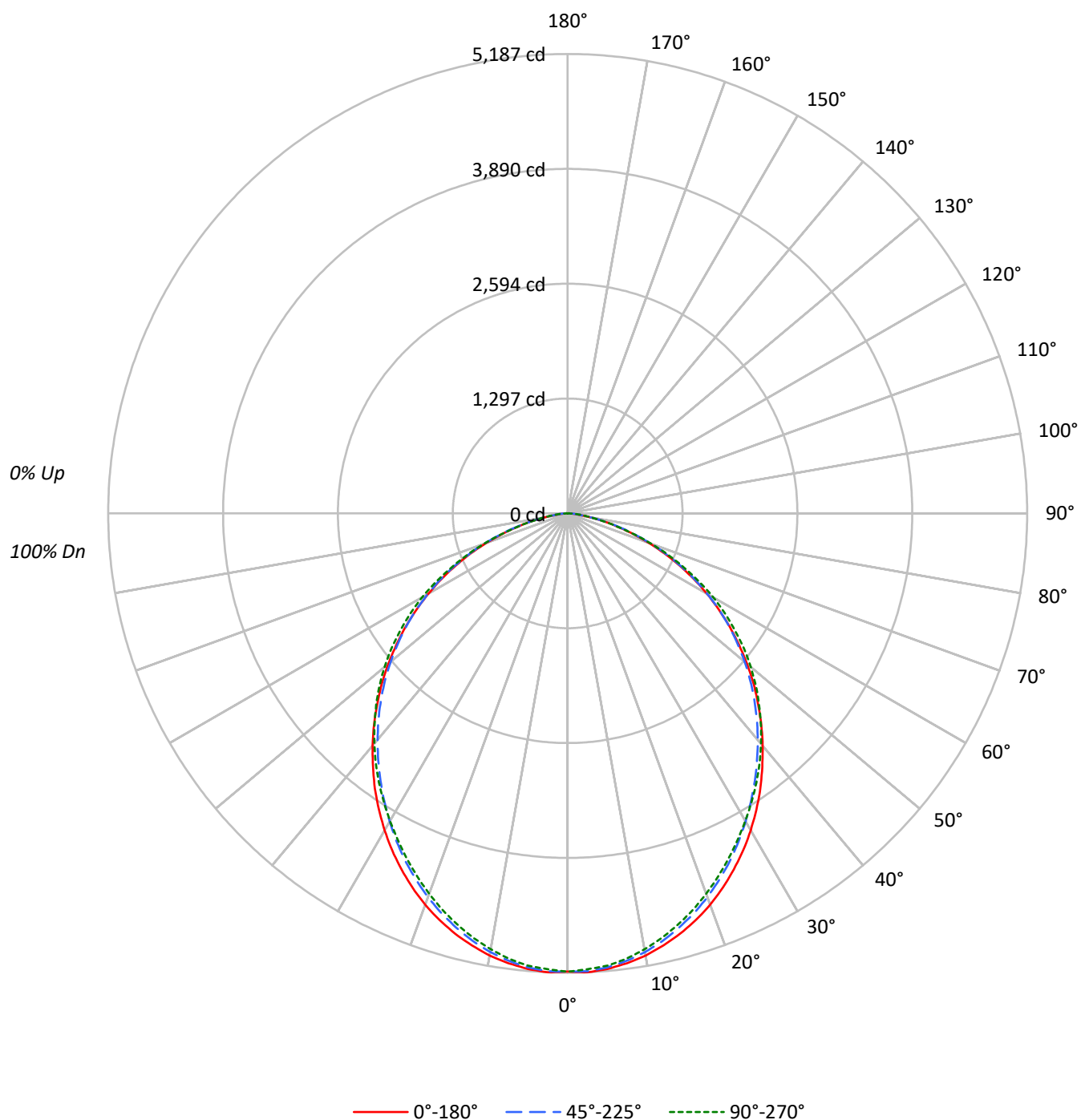
Lumens per Lamp: N/A
Luminaire Lumens: 12658.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 140.5
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
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	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	44	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6962	6962	6962
5°	6974	6950	6923
10°	6926	6872	6828
15°	6843	6750	6697
20°	6733	6602	6545
25°	6587	6432	6381
30°	6420	6241	6230
35°	6230	6049	6099
40°	6016	5862	5964
45°	5783	5672	5816
50°	5528	5459	5645
55°	5240	5215	5410
60°	4884	4906	5112
65°	4441	4498	4615
70°	3832	3936	3955
75°	3052	3177	3055
80°	2065	2164	2111
85°	1074	1425	1783

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5816 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.8	3.8
10°-20°	1365.2	10.8
20°-30°	1999.8	15.8
30°-40°	2322.5	18.3
40°-50°	2322.1	18.3
50°-60°	2003.2	15.8
60°-70°	1398.9	11.1
70°-80°	641.7	5.1
80°-90°	117.8	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°	3851.9	30.4
0°-40°	6174.4	48.8
0°-60°	10499.7	82.9
0°-90°	12658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12658.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5174	5174	5174	5174	5174	
5°	5164	5143	5146	5118	5126	490
15°	4913	4879	4846	4802	4808	1384
25°	4437	4389	4332	4286	4298	2043
35°	3793	3733	3683	3684	3713	2370
45°	3039	2990	2981	3024	3056	2345
55°	2234	2195	2223	2284	2306	1994
65°	1395	1378	1413	1442	1450	1379
75°	587	586	611	600	588	631
85°	70	77	92	109	116	102
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5174.4	5174.4	5174.4	5174.4	5174.4
2.5°	5186.6	5167.8	5174.4	5152.8	5151.1
5°	5163.6	5143.4	5146.0	5118.5	5126.1
7.5°	5123.7	5101.3	5096.4	5065.4	5071.9
10°	5069.6	5042.3	5029.7	4993.1	4997.6
12.5°	4997.6	4968.3	4946.1	4903.6	4910.7
15°	4912.8	4879.4	4845.6	4801.6	4807.5
17.5°	4814.6	4776.6	4735.2	4684.9	4695.5
20°	4702.0	4659.9	4610.7	4557.8	4570.9
22.5°	4575.7	4530.2	4474.9	4425.3	4437.5
25°	4436.8	4389.0	4332.4	4285.7	4298.5
27.5°	4290.5	4237.1	4178.3	4140.5	4155.0
30°	4132.2	4076.1	4017.3	3988.3	4009.7
32.5°	3965.1	3908.3	3852.9	3838.3	3863.6
35°	3793.2	3733.0	3682.8	3683.7	3713.3
37.5°	3608.5	3555.2	3512.0	3527.9	3558.0
40°	3425.1	3369.8	3337.5	3363.5	3395.5
42.5°	3235.3	3184.3	3161.0	3198.7	3228.2
45°	3039.1	2990.3	2980.6	3024.3	3056.4
47.5°	2845.5	2796.5	2797.5	2846.8	2882.3
50°	2641.0	2597.9	2608.0	2665.4	2696.8
52.5°	2436.1	2395.1	2416.8	2478.3	2509.5
55°	2233.7	2195.0	2223.2	2283.7	2306.2
57.5°	2023.7	1995.7	2027.2	2081.6	2106.2
60°	1814.8	1789.2	1823.2	1876.2	1899.6
62.5°	1605.3	1585.1	1619.8	1665.6	1675.7
65°	1395.0	1378.0	1412.9	1442.3	1449.5
67.5°	1181.9	1172.2	1207.3	1227.8	1229.8
70°	974.1	962.9	1000.5	1012.5	1005.4
72.5°	772.0	768.5	797.7	801.3	787.9
75°	587.0	585.5	611.1	599.8	587.7
77.5°	415.1	415.8	433.3	419.7	413.7
80°	266.5	274.2	279.3	276.7	272.5
82.5°	149.8	159.6	163.6	180.4	187.5
85°	69.6	76.7	92.3	108.6	115.5
87.5°	23.6	29.4	38.2	41.2	38.8
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	17.67	19.26	18.04	19.57	19.89	17.97	19.55	18.33	19.86	20.18
	3H	19.13	20.55	19.51	20.88	21.24	19.42	20.85	19.80	21.17	21.53
	4H	19.55	20.89	19.95	21.24	21.61	19.82	21.16	20.22	21.51	21.89
	6H	19.76	20.99	20.17	21.36	21.75	20.01	21.25	20.42	21.61	22.01
	8H	19.78	20.96	20.21	21.35	21.75	20.05	21.23	20.48	21.62	22.02
	12H	19.78	20.91	20.21	21.29	21.72	20.07	21.20	20.50	21.58	22.01
4H	2H	18.25	19.58	18.64	19.93	20.31	18.48	19.82	18.88	20.17	20.55
	3H	19.88	20.99	20.29	21.39	21.79	20.13	21.24	20.54	21.64	22.04
	4H	20.39	21.39	20.82	21.80	22.24	20.62	21.62	21.05	22.03	22.47
	6H	20.67	21.54	21.12	21.98	22.44	20.88	21.75	21.34	22.19	22.65
	8H	20.71	21.52	21.17	21.97	22.43	20.94	21.75	21.40	22.20	22.66
	12H	20.72	21.45	21.20	21.93	22.40	20.99	21.71	21.47	22.19	22.66
8H	4H	20.58	21.39	21.04	21.83	22.30	20.79	21.60	21.25	22.04	22.51
	6H	20.91	21.58	21.41	22.07	22.55	21.11	21.78	21.60	22.27	22.74
	8H	20.98	21.58	21.49	22.09	22.58	21.20	21.80	21.71	22.31	22.79
	12H	21.02	21.55	21.53	22.04	22.60	21.28	21.81	21.79	22.30	22.86
12H	4H	20.57	21.30	21.06	21.78	22.25	20.78	21.51	21.26	21.99	22.46
	6H	20.91	21.51	21.42	22.02	22.51	21.10	21.70	21.61	22.21	22.70
	8H	21.01	21.54	21.52	22.04	22.60	21.23	21.76	21.74	22.25	22.81