

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: P1499619

Luminaire Tested: MAE-G-4-120-3LO-LO-35

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499619
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-LO-35
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

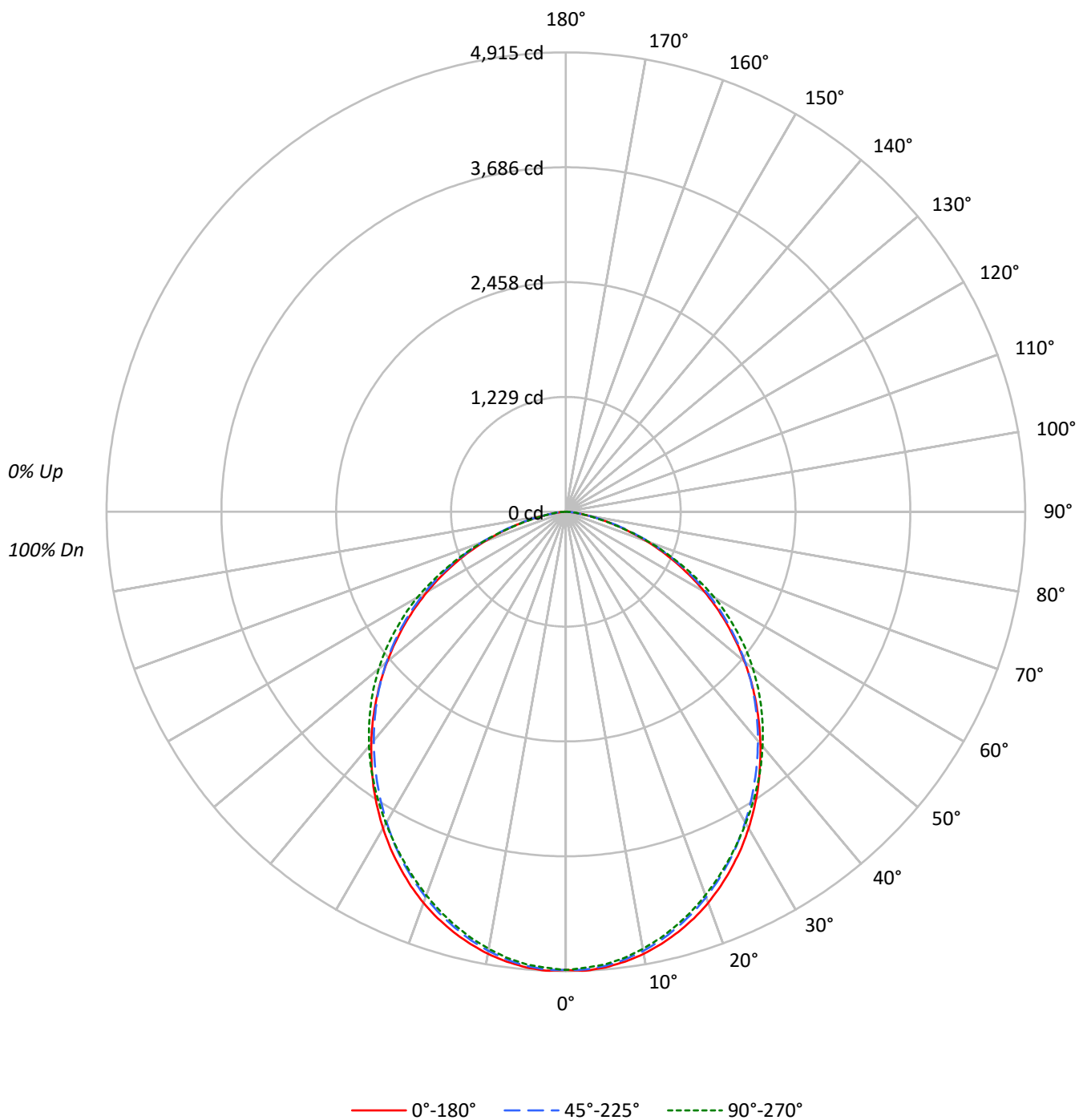
Lumens per Lamp: N/A
Luminaire Lumens: 12068.0 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 120.2
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	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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	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	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6596	6596	6596
5°	6608	6587	6565
10°	6562	6519	6487
15°	6483	6413	6380
20°	6376	6284	6251
25°	6237	6133	6111
30°	6077	5961	5980
35°	5895	5786	5870
40°	5690	5616	5753
45°	5468	5441	5623
50°	5225	5244	5470
55°	4951	5015	5246
60°	4611	4722	4945
65°	4188	4325	4420
70°	3607	3756	3724
75°	2865	2979	2777
80°	1928	1947	1801
85°	990	1215	1476

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5623 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.6	3.8
10°-20°	1297.2	10.7
20°-30°	1905.3	15.8
30°-40°	2218.5	18.4
40°-50°	2223.7	18.4
50°-60°	1921.9	15.9
60°-70°	1337.0	11.1
70°-80°	599.4	5.0
80°-90°	103.4	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°	3664.0	30.4
0°-40°	5882.5	48.7
0°-60°	10028.1	83.1
0°-90°	12068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12068.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4902	4902	4902	4902	4902	
5°	4893	4872	4877	4854	4861	464
15°	4654	4624	4604	4573	4580	1311
25°	4201	4164	4131	4100	4116	1934
35°	3589	3545	3523	3539	3574	2242
45°	2874	2842	2860	2918	2955	2217
55°	2110	2088	2138	2210	2236	1884
65°	1316	1312	1359	1384	1388	1300
75°	551	556	573	551	534	592
85°	64	69	79	91	96	95
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4902.4	4902.4	4902.4	4902.4	4902.4
2.5°	4914.7	4894.3	4902.4	4884.9	4881.4
5°	4892.6	4871.6	4876.9	4854.5	4861.0
7.5°	4854.6	4832.4	4832.1	4807.7	4813.7
10°	4803.0	4776.9	4771.4	4743.6	4748.2
12.5°	4734.5	4707.5	4695.5	4663.9	4671.7
15°	4653.8	4624.1	4603.9	4572.8	4580.0
17.5°	4560.4	4527.7	4503.3	4467.2	4478.9
20°	4453.1	4418.2	4388.8	4350.5	4365.8
22.5°	4333.0	4296.3	4262.7	4228.4	4244.0
25°	4200.9	4163.7	4130.9	4099.7	4116.0
27.5°	4061.7	4020.4	3987.4	3965.4	3983.4
30°	3911.2	3868.5	3836.8	3823.4	3849.0
32.5°	3752.3	3710.2	3682.3	3683.6	3713.2
35°	3589.1	3544.8	3522.6	3539.0	3573.5
37.5°	3413.6	3376.4	3361.9	3393.2	3428.2
40°	3239.7	3201.0	3197.2	3238.4	3275.3
42.5°	3059.8	3025.7	3030.4	3083.0	3117.4
45°	2873.6	2842.1	2859.5	2917.5	2955.1
47.5°	2690.6	2658.2	2685.6	2748.9	2789.4
50°	2496.1	2469.9	2505.3	2576.1	2613.3
52.5°	2302.9	2277.7	2322.9	2397.6	2433.4
55°	2110.5	2087.9	2138.0	2210.5	2236.2
57.5°	1911.5	1898.9	1950.7	2014.1	2041.0
60°	1713.5	1702.8	1754.9	1813.6	1837.6
62.5°	1515.1	1509.2	1558.8	1606.1	1614.0
65°	1315.6	1312.3	1358.6	1383.6	1388.4
67.5°	1113.7	1116.1	1158.1	1170.5	1169.7
70°	916.9	916.8	954.8	957.5	946.6
72.5°	725.6	731.2	755.4	748.8	731.3
75°	551.2	556.2	573.1	550.8	534.2
77.5°	388.9	393.0	400.1	375.7	365.3
80°	248.8	256.4	251.3	239.6	232.4
82.5°	138.9	146.7	142.1	152.8	157.6
85°	64.1	68.6	78.7	90.7	95.6
87.5°	21.8	25.9	32.2	34.4	32.1
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	17.49	19.07	17.85	19.38	19.70	17.91	19.49	18.27	19.80	20.12
	3H	18.93	20.36	19.31	20.68	21.04	19.31	20.74	19.69	21.06	21.42
	4H	19.35	20.69	19.75	21.04	21.41	19.67	21.01	20.07	21.36	21.74
	6H	19.55	20.79	19.96	21.15	21.54	19.83	21.06	20.24	21.43	21.82
	8H	19.57	20.75	20.00	21.14	21.54	19.85	21.03	20.28	21.42	21.82
	12H	19.57	20.70	20.00	21.08	21.51	19.86	20.99	20.29	21.37	21.80
4H	2H	18.07	19.41	18.47	19.76	20.14	18.41	19.75	18.81	20.10	20.48
	3H	19.69	20.81	20.10	21.20	21.60	20.00	21.12	20.41	21.51	21.91
	4H	20.20	21.20	20.63	21.61	22.05	20.45	21.45	20.88	21.87	22.30
	6H	20.47	21.34	20.93	21.78	22.24	20.67	21.54	21.13	21.98	22.44
	8H	20.51	21.32	20.97	21.77	22.23	20.71	21.52	21.17	21.97	22.43
	12H	20.52	21.25	21.00	21.72	22.19	20.74	21.47	21.22	21.94	22.41
8H	4H	20.38	21.19	20.84	21.63	22.10	20.61	21.42	21.07	21.87	22.33
	6H	20.70	21.37	21.20	21.86	22.34	20.88	21.55	21.37	22.04	22.51
	8H	20.77	21.37	21.28	21.88	22.36	20.94	21.54	21.45	22.05	22.54
	12H	20.80	21.33	21.31	21.82	22.38	21.00	21.53	21.51	22.02	22.58
12H	4H	20.37	21.10	20.86	21.58	22.05	20.61	21.33	21.09	21.81	22.28
	6H	20.70	21.30	21.21	21.81	22.29	20.87	21.47	21.38	21.98	22.46
	8H	20.79	21.32	21.30	21.81	22.38	20.97	21.50	21.48	21.99	22.55