

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: P1499424

Luminaire Tested: MAE-G-4-120-2STD-LO-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499424
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-LO-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

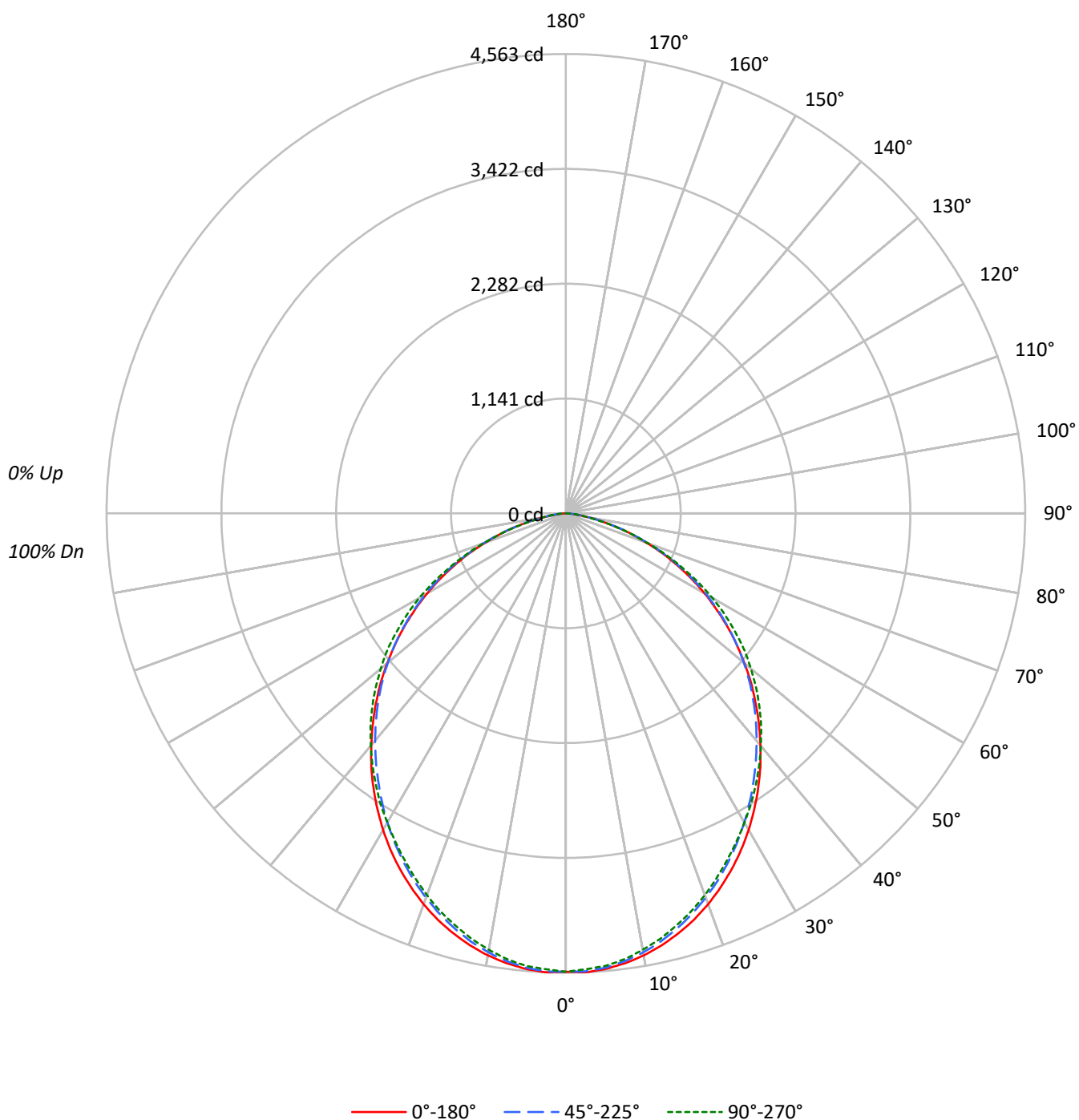
Lumens per Lamp: N/A
Luminaire Lumens: 11151.0 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 116.5
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	30	10	50	30	10
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	86		
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	62		
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°	6126	6126	6126
5°	6135	6117	6093
10°	6091	6050	6014
15°	6015	5946	5904
20°	5916	5816	5778
25°	5790	5669	5636
30°	5641	5507	5510
35°	5473	5337	5403
40°	5280	5177	5293
45°	5074	5012	5176
50°	4850	4831	5022
55°	4591	4614	4818
60°	4281	4341	4529
65°	3887	3966	4063
70°	3351	3434	3435
75°	2663	2731	2620
80°	1792	1819	1735
85°	906	1152	1431

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5176 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.5	3.8
10°-20°	1202.5	10.8
20°-30°	1763.1	15.8
30°-40°	2050.4	18.4
40°-50°	2052.1	18.4
50°-60°	1771.0	15.9
60°-70°	1230.7	11.0
70°-80°	555.0	5.0
80°-90°	97.8	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°	3394.1	30.4
0°-40°	5444.5	48.8
0°-60°	9267.5	83.1
0°-90°	11151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11151.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4553	4553	4553	4553	4553	
5°	4542	4524	4529	4506	4511	431
15°	4318	4290	4268	4234	4239	1217
25°	3900	3863	3818	3787	3796	1795
35°	3332	3287	3249	3263	3290	2082
45°	2667	2630	2634	2686	2720	2057
55°	1957	1932	1967	2029	2054	1748
65°	1221	1215	1246	1264	1276	1208
75°	512	512	525	510	504	551
85°	59	64	75	88	93	88
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4552.8	4552.8	4552.8	4552.8	4552.8
2.5°	4562.6	4545.3	4552.8	4535.6	4532.6
5°	4542.4	4524.3	4528.8	4506.1	4511.2
7.5°	4507.3	4487.4	4486.5	4461.6	4467.0
10°	4458.5	4434.8	4428.4	4398.4	4401.6
12.5°	4396.1	4370.4	4356.9	4323.2	4328.9
15°	4318.4	4290.4	4268.5	4234.5	4238.6
17.5°	4233.0	4203.9	4170.7	4135.4	4144.6
20°	4131.6	4101.0	4061.9	4024.9	4035.4
22.5°	4019.6	3985.4	3945.7	3909.9	3917.4
25°	3900.2	3863.3	3818.3	3787.4	3796.3
27.5°	3770.1	3729.4	3685.0	3659.2	3672.1
30°	3630.6	3588.5	3544.5	3529.4	3546.8
32.5°	3483.6	3441.5	3399.9	3399.6	3424.0
35°	3331.8	3287.1	3249.0	3262.6	3289.6
37.5°	3174.1	3130.4	3099.6	3126.6	3154.9
40°	3006.4	2967.0	2947.3	2983.5	3013.5
42.5°	2838.4	2801.2	2792.5	2838.2	2870.6
45°	2666.8	2630.4	2633.9	2685.7	2720.2
47.5°	2497.0	2459.5	2473.8	2531.1	2562.0
50°	2316.9	2285.5	2308.1	2368.1	2399.3
52.5°	2136.7	2107.9	2139.2	2202.4	2238.5
55°	1957.3	1932.0	1966.9	2028.6	2054.1
57.5°	1773.6	1756.0	1793.3	1846.8	1871.1
60°	1590.8	1575.2	1613.0	1661.1	1683.2
62.5°	1405.9	1393.8	1431.3	1468.3	1480.3
65°	1221.0	1214.9	1245.8	1264.2	1276.1
67.5°	1039.9	1033.2	1061.3	1075.6	1078.0
70°	851.7	851.1	872.9	877.0	873.2
72.5°	679.5	676.8	692.6	687.3	680.0
75°	512.3	512.5	525.4	510.0	504.0
77.5°	360.4	366.7	367.4	353.6	348.6
80°	231.3	240.0	234.8	228.5	223.9
82.5°	129.1	135.1	134.3	146.7	151.6
85°	58.7	64.1	74.6	87.6	92.7
87.5°	19.9	24.4	31.1	33.1	31.1
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	17.22	18.81	17.59	19.12	19.43	17.58	19.16	17.94	19.47	19.79
	3H	18.68	20.10	19.06	20.43	20.79	18.99	20.42	19.37	20.74	21.10
	4H	19.10	20.44	19.50	20.78	21.16	19.37	20.70	19.77	21.05	21.43
	6H	19.30	20.54	19.71	20.90	21.29	19.53	20.77	19.95	21.14	21.53
	8H	19.33	20.50	19.75	20.89	21.29	19.56	20.74	19.99	21.13	21.53
	12H	19.32	20.45	19.75	20.83	21.26	19.58	20.71	20.01	21.09	21.52
4H	2H	17.80	19.13	18.20	19.48	19.86	18.09	19.42	18.49	19.77	20.15
	3H	19.43	20.54	19.84	20.94	21.34	19.68	20.79	20.09	21.19	21.59
	4H	19.93	20.93	20.36	21.35	21.78	20.14	21.14	20.57	21.56	21.99
	6H	20.21	21.08	20.67	21.52	21.98	20.38	21.25	20.84	21.69	22.15
	8H	20.25	21.06	20.71	21.50	21.97	20.43	21.24	20.89	21.68	22.15
	12H	20.26	20.99	20.74	21.46	21.93	20.46	21.19	20.94	21.66	22.13
8H	4H	20.11	20.92	20.57	21.37	21.83	20.30	21.11	20.77	21.56	22.02
	6H	20.44	21.11	20.94	21.60	22.08	20.59	21.26	21.09	21.75	22.23
	8H	20.51	21.11	21.02	21.61	22.10	20.66	21.26	21.18	21.77	22.26
	12H	20.54	21.07	21.05	21.56	22.12	20.73	21.26	21.24	21.75	22.32
12H	4H	20.11	20.83	20.59	21.31	21.78	20.30	21.03	20.78	21.50	21.97
	6H	20.44	21.04	20.95	21.54	22.03	20.58	21.18	21.09	21.69	22.18
	8H	20.53	21.06	21.04	21.55	22.12	20.69	21.22	21.20	21.71	22.28