

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: P1499433

Luminaire Tested: MAE-G-4-120-2STD-LO-40

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499433
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-40
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

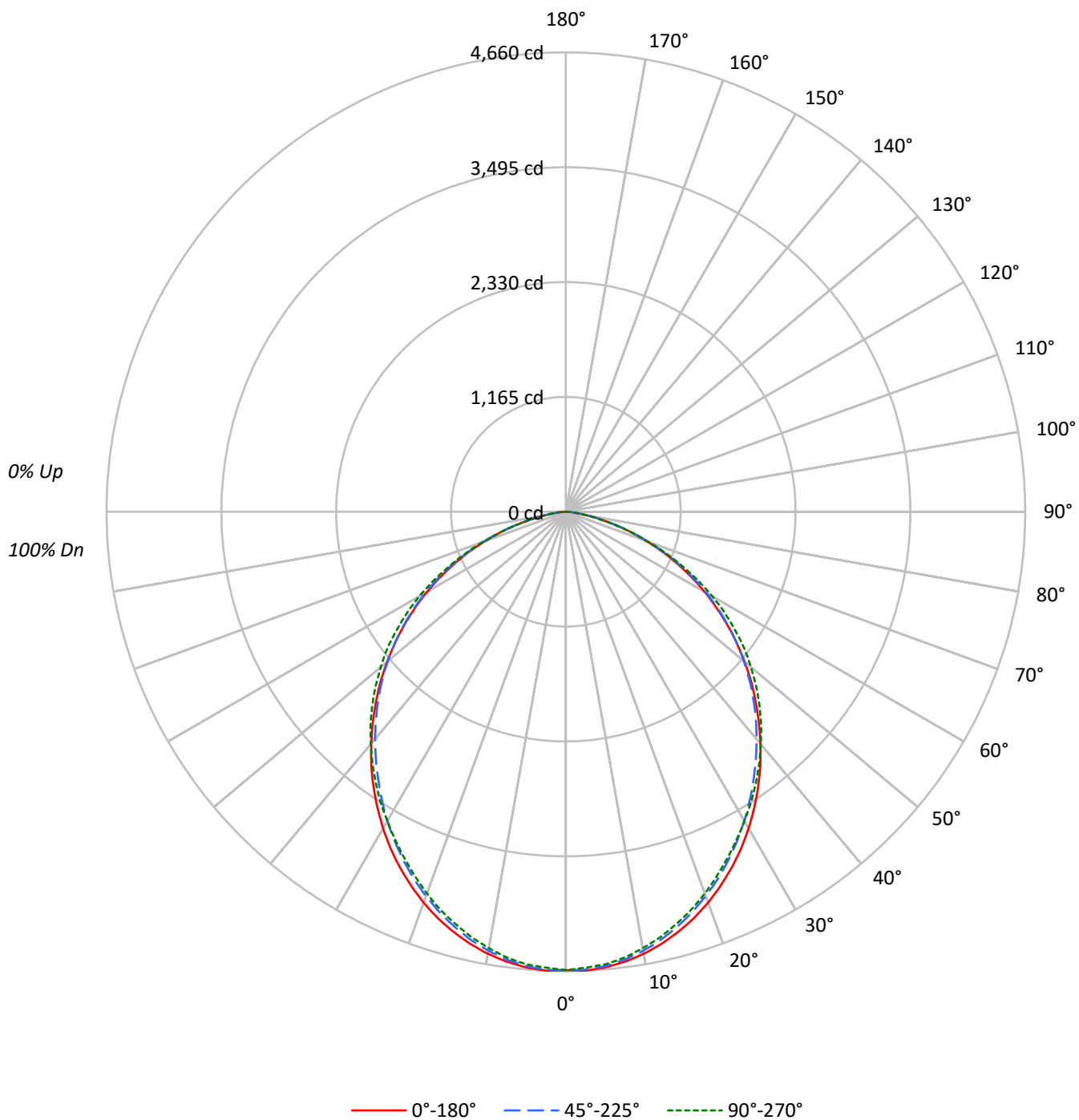
Lumens per Lamp: N/A
Luminaire Lumens: 11388.0 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
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	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	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6256	6256	6256
5°	6265	6247	6222
10°	6221	6179	6142
15°	6143	6072	6030
20°	6042	5940	5901
25°	5913	5789	5756
30°	5761	5624	5628
35°	5589	5450	5518
40°	5393	5287	5405
45°	5182	5119	5286
50°	4953	4934	5129
55°	4689	4712	4921
60°	4372	4433	4626
65°	3970	4051	4149
70°	3422	3507	3508
75°	2720	2790	2676
80°	1830	1858	1772
85°	925	1175	1462

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5286 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.6	3.8
10°-20°	1228.1	10.8
20°-30°	1800.6	15.8
30°-40°	2093.9	18.4
40°-50°	2095.7	18.4
50°-60°	1808.6	15.9
60°-70°	1256.8	11.0
70°-80°	566.9	5.0
80°-90°	99.8	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°	3466.2	30.4
0°-40°	5560.2	48.8
0°-60°	9464.5	83.1
0°-90°	11388.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11388.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4650	4650	4650	4650	4650	
5°	4639	4620	4625	4602	4607	440
15°	4410	4382	4359	4325	4329	1243
25°	3983	3945	3899	3868	3877	1833
35°	3403	3357	3318	3332	3360	2127
45°	2723	2686	2690	2743	2778	2101
55°	1999	1973	2009	2072	2098	1785
65°	1247	1241	1272	1291	1303	1234
75°	523	523	537	521	515	563
85°	60	66	76	89	95	90
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4649.6	4649.6	4649.6	4649.6	4649.6
2.5°	4659.5	4641.9	4649.6	4632.1	4628.9
5°	4638.9	4620.4	4625.1	4601.8	4607.1
7.5°	4603.2	4582.7	4581.9	4556.4	4561.9
10°	4553.2	4529.1	4522.5	4491.9	4495.2
12.5°	4489.6	4463.3	4449.5	4415.0	4421.0
15°	4410.2	4381.6	4359.2	4324.6	4328.7
17.5°	4323.0	4293.3	4259.4	4223.3	4232.7
20°	4219.5	4188.1	4148.2	4110.4	4121.2
22.5°	4105.1	4070.2	4029.6	3993.0	4000.6
25°	3983.1	3945.4	3899.4	3867.9	3877.1
27.5°	3850.4	3808.6	3763.4	3736.9	3750.1
30°	3707.8	3664.8	3619.9	3604.4	3622.2
32.5°	3557.6	3514.7	3472.2	3471.8	3496.9
35°	3402.6	3356.9	3318.0	3331.9	3359.5
37.5°	3241.6	3196.9	3165.4	3193.0	3221.9
40°	3070.4	3030.1	3009.9	3046.8	3077.5
42.5°	2898.7	2860.7	2851.9	2898.5	2931.5
45°	2723.4	2686.4	2690.0	2742.6	2777.9
47.5°	2550.1	2511.8	2526.4	2584.9	2616.4
50°	2366.1	2334.2	2357.1	2418.4	2450.3
52.5°	2182.2	2152.8	2184.6	2249.2	2286.0
55°	1999.0	1973.1	2008.6	2071.8	2097.7
57.5°	1811.3	1793.3	1831.3	1886.0	1910.8
60°	1624.6	1608.7	1647.2	1696.4	1719.0
62.5°	1435.8	1423.4	1461.7	1499.5	1511.8
65°	1246.9	1240.8	1272.3	1291.0	1303.3
67.5°	1062.0	1055.2	1083.8	1098.5	1101.0
70°	869.8	869.2	891.5	895.6	891.8
72.5°	694.0	691.3	707.3	701.9	694.5
75°	523.2	523.4	536.6	520.8	514.7
77.5°	368.1	374.6	375.2	361.2	356.0
80°	236.2	245.1	239.8	233.4	228.7
82.5°	131.8	137.9	137.2	149.7	154.8
85°	59.9	65.5	76.1	89.4	94.7
87.5°	20.3	24.9	31.7	33.7	31.8
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	17.30	18.88	17.66	19.19	19.51	17.65	19.23	18.02	19.55	19.86
	3H	18.75	20.18	19.13	20.50	20.86	19.06	20.49	19.44	20.82	21.18
	4H	19.17	20.51	19.57	20.86	21.23	19.44	20.78	19.84	21.13	21.50
	6H	19.37	20.61	19.79	20.97	21.37	19.61	20.84	20.02	21.21	21.60
	8H	19.40	20.58	19.82	20.97	21.37	19.64	20.81	20.06	21.20	21.60
	12H	19.40	20.52	19.83	20.90	21.33	19.65	20.78	20.08	21.16	21.59
4H	2H	17.87	19.21	18.27	19.56	19.93	18.16	19.50	18.56	19.84	20.22
	3H	19.50	20.61	19.91	21.01	21.41	19.75	20.87	20.16	21.26	21.66
	4H	20.01	21.01	20.44	21.42	21.86	20.22	21.22	20.65	21.63	22.07
	6H	20.28	21.15	20.74	21.59	22.05	20.45	21.32	20.91	21.76	22.22
	8H	20.32	21.13	20.79	21.58	22.04	20.50	21.31	20.96	21.76	22.22
	12H	20.33	21.06	20.81	21.54	22.01	20.53	21.26	21.02	21.74	22.21
8H	4H	20.18	21.00	20.65	21.44	21.91	20.38	21.19	20.84	21.63	22.10
	6H	20.52	21.18	21.01	21.67	22.15	20.66	21.33	21.16	21.82	22.30
	8H	20.58	21.18	21.09	21.69	22.17	20.74	21.34	21.25	21.85	22.33
	12H	20.61	21.14	21.12	21.63	22.19	20.80	21.33	21.31	21.83	22.39
12H	4H	20.18	20.91	20.66	21.38	21.85	20.37	21.10	20.85	21.58	22.05
	6H	20.51	21.11	21.02	21.62	22.11	20.66	21.26	21.17	21.77	22.25
	8H	20.61	21.13	21.11	21.63	22.19	20.76	21.29	21.27	21.78	22.35