

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: P1499394

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499394
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-HI-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

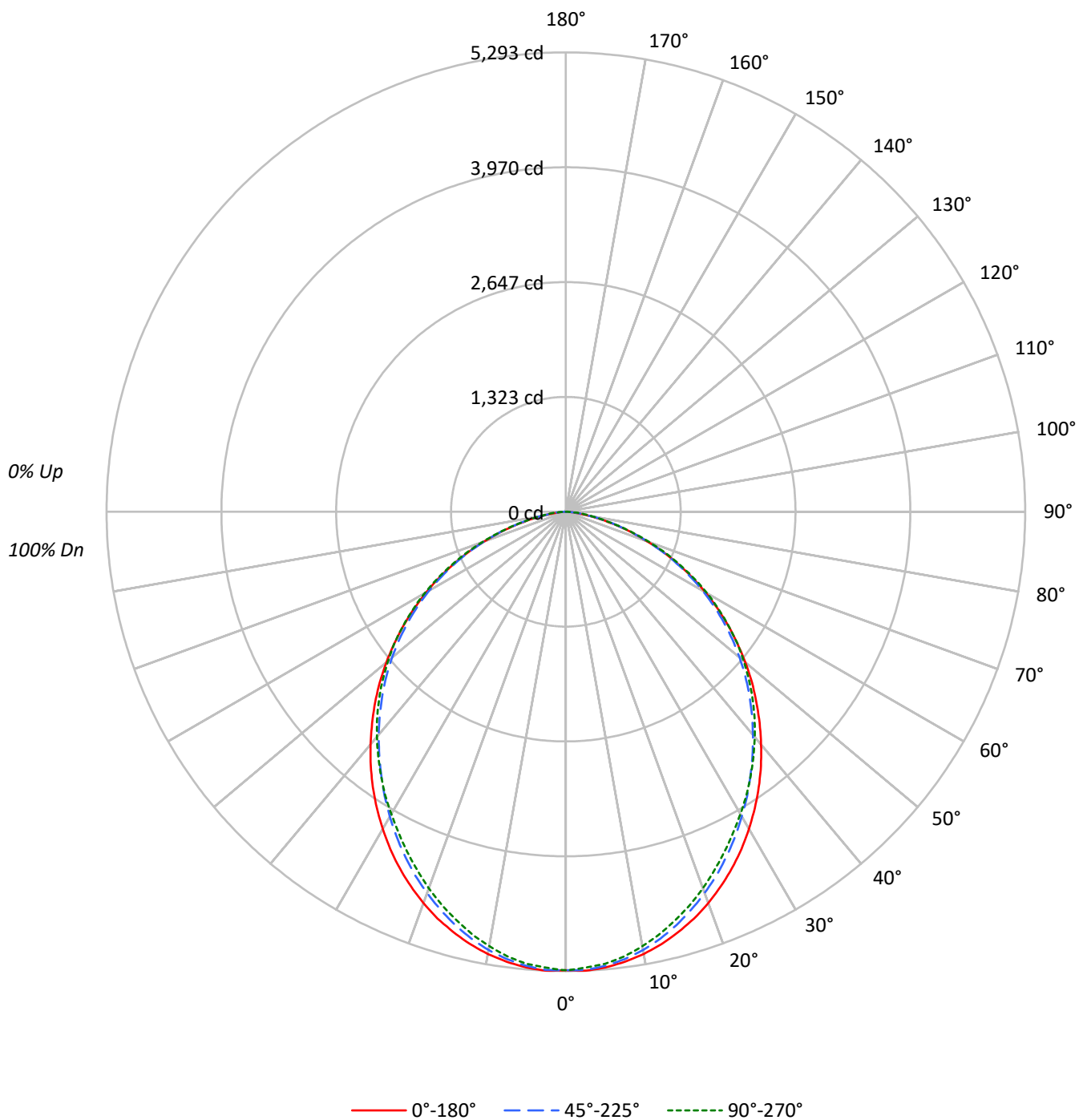
Lumens per Lamp: N/A
Luminaire Lumens: 12800.0 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 157.2
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	98	90	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	61
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7108	7108	7108
5°	7118	7094	7059
10°	7069	7005	6944
15°	6983	6865	6785
20°	6870	6694	6609
25°	6727	6505	6419
30°	6557	6301	6247
35°	6366	6090	6098
40°	6147	5891	5947
45°	5911	5688	5789
50°	5653	5470	5596
55°	5356	5214	5362
60°	4999	4898	5065
65°	4550	4486	4627
70°	3935	3941	4038
75°	3140	3238	3267
80°	2137	2316	2398
85°	1110	1601	2078

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5911 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.6	3.9
10°-20°	1388.4	10.8
20°-30°	2026.0	15.8
30°-40°	2345.0	18.3
40°-50°	2336.4	18.3
50°-60°	2009.8	15.7
60°-70°	1407.0	11.0
70°-80°	661.4	5.2
80°-90°	129.4	1.0
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°	3911.0	30.6
0°-40°	6256.0	48.9
0°-60°	10602.2	82.8
0°-90°	12800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12800.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5283	5283	5283	5283	5283	
5°	5270	5253	5252	5219	5227	500
15°	5013	4977	4928	4869	4871	1413
25°	4531	4473	4382	4320	4324	2086
35°	3876	3799	3708	3693	3712	2422
45°	3106	3036	2989	3017	3043	2396
55°	2283	2227	2222	2265	2286	2039
65°	1429	1397	1409	1437	1453	1414
75°	604	592	623	627	628	650
85°	72	82	104	125	135	106
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5282.9	5282.9	5282.9	5282.9	5282.9
2.5°	5293.1	5278.0	5282.9	5257.4	5257.5
5°	5270.4	5252.7	5252.2	5219.0	5226.6
7.5°	5229.9	5208.6	5199.0	5160.7	5167.3
10°	5174.0	5147.0	5126.9	5079.4	5082.4
12.5°	5102.2	5070.6	5037.4	4982.0	4986.7
15°	5013.0	4976.7	4928.4	4869.0	4870.9
17.5°	4914.5	4873.9	4808.0	4744.3	4751.7
20°	4798.3	4752.7	4675.0	4609.0	4616.0
22.5°	4669.3	4617.0	4535.1	4468.8	4471.2
25°	4531.2	4472.7	4381.9	4320.3	4323.6
27.5°	4381.6	4316.4	4222.1	4165.7	4172.9
30°	4220.7	4151.5	4055.6	4010.3	4021.1
32.5°	4051.3	3979.5	3885.4	3855.1	3872.8
35°	3875.7	3799.1	3707.9	3692.7	3712.4
37.5°	3692.7	3617.1	3532.2	3531.7	3552.1
40°	3499.6	3427.3	3353.9	3363.4	3386.0
42.5°	3304.9	3234.8	3173.7	3193.5	3217.9
45°	3106.4	3036.1	2989.4	3016.8	3042.6
47.5°	2908.3	2838.3	2804.5	2838.0	2861.4
50°	2700.8	2636.6	2613.3	2651.2	2673.2
52.5°	2490.2	2430.5	2419.6	2461.5	2490.2
55°	2283.3	2226.6	2222.5	2265.2	2285.6
57.5°	2070.1	2023.0	2024.7	2064.0	2084.9
60°	1857.8	1814.0	1820.1	1860.3	1882.3
62.5°	1643.1	1603.8	1615.9	1652.5	1668.8
65°	1429.3	1397.1	1408.9	1437.1	1453.4
67.5°	1217.7	1188.4	1206.0	1236.0	1243.5
70°	1000.2	978.6	1001.9	1023.5	1026.5
72.5°	799.0	779.7	806.2	820.1	819.2
75°	604.1	592.5	622.9	627.0	628.4
77.5°	427.1	427.1	448.2	453.2	455.9
80°	275.8	284.9	298.9	309.1	309.5
82.5°	155.7	165.8	181.0	205.5	215.0
85°	71.9	82.3	103.7	125.3	134.6
87.5°	24.2	32.1	43.8	47.4	45.1
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	17.74	19.33	18.11	19.64	19.95	17.87	19.45	18.23	19.77	20.08
	3H	19.21	20.64	19.59	20.96	21.33	19.37	20.80	19.75	21.13	21.49
	4H	19.64	20.98	20.04	21.33	21.70	19.82	21.16	20.22	21.51	21.88
	6H	19.85	21.09	20.26	21.46	21.85	20.06	21.30	20.47	21.66	22.05
	8H	19.88	21.06	20.31	21.45	21.85	20.12	21.30	20.54	21.69	22.09
	12H	19.88	21.01	20.31	21.39	21.82	20.16	21.29	20.59	21.67	22.10
4H	2H	18.29	19.63	18.69	19.97	20.35	18.39	19.73	18.79	20.08	20.45
	3H	19.94	21.05	20.35	21.45	21.85	20.09	21.20	20.50	21.60	22.00
	4H	20.45	21.46	20.88	21.87	22.31	20.63	21.63	21.06	22.05	22.48
	6H	20.74	21.62	21.20	22.06	22.52	20.96	21.83	21.41	22.27	22.73
	8H	20.79	21.60	21.25	22.05	22.51	21.04	21.85	21.50	22.30	22.76
	12H	20.81	21.53	21.29	22.01	22.48	21.10	21.83	21.59	22.31	22.78
8H	4H	20.65	21.46	21.11	21.91	22.37	20.81	21.62	21.27	22.07	22.53
	6H	21.00	21.67	21.49	22.16	22.64	21.20	21.87	21.69	22.36	22.84
	8H	21.07	21.67	21.58	22.18	22.67	21.32	21.93	21.84	22.43	22.92
	12H	21.11	21.64	21.62	22.13	22.70	21.43	21.97	21.94	22.46	23.02
12H	4H	20.65	21.38	21.13	21.86	22.33	20.81	21.54	21.29	22.01	22.48
	6H	21.00	21.61	21.51	22.12	22.60	21.20	21.80	21.71	22.31	22.80
	8H	21.11	21.65	21.62	22.14	22.70	21.36	21.89	21.87	22.39	22.95