

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: P1499133

Luminaire Tested: MAE-G-4-120-1STD-LO-30

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1STD-LO-30
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

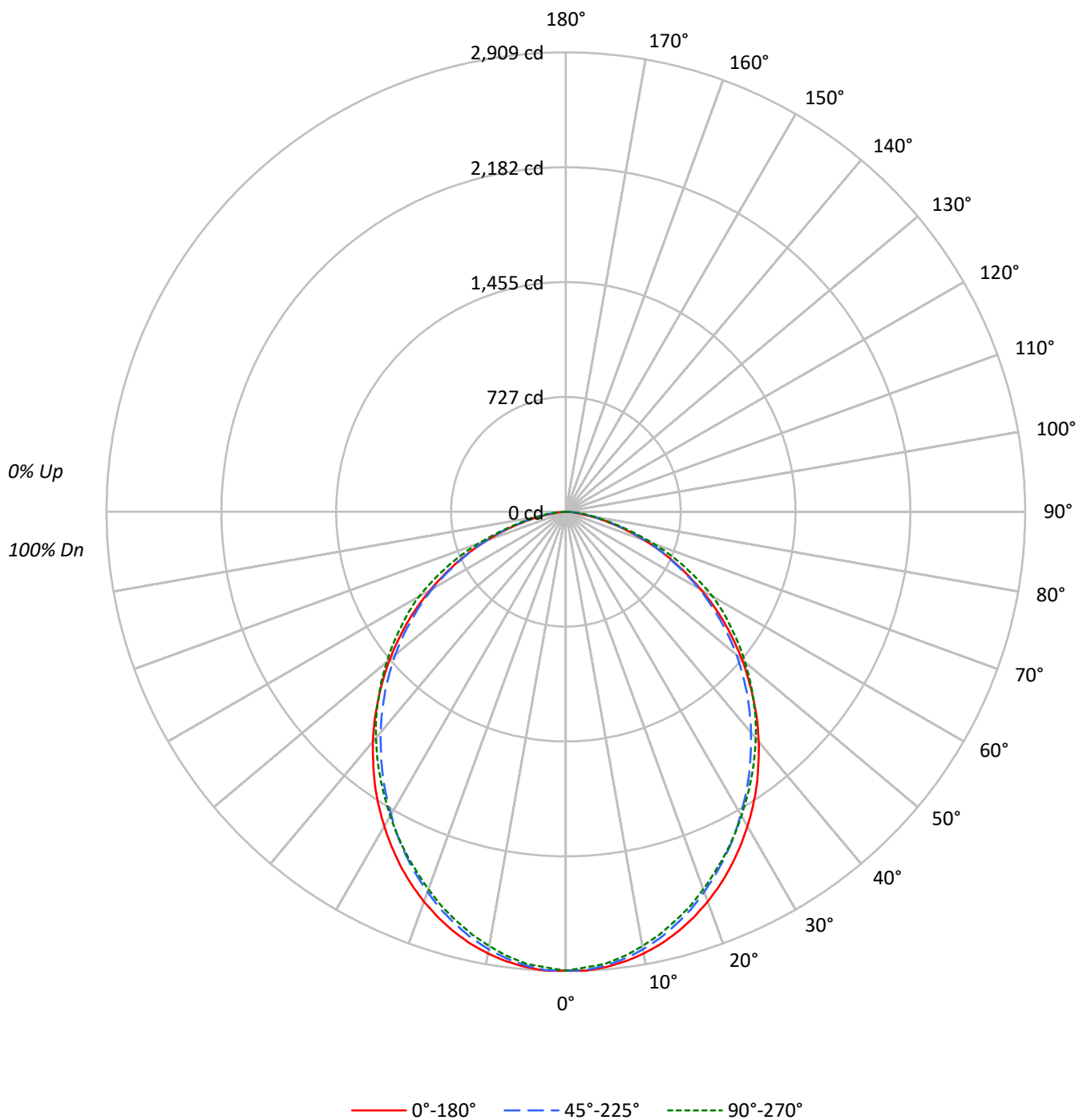
Lumens per Lamp: N/A
Luminaire Lumens: 6998.0 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 82.3
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	87	85
2	100	92	86	80	98	90	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	61
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	39		50	43	38		48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45	39	34	32
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38	32	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3909	3909	3909
5°	3910	3896	3880
10°	3881	3844	3816
15°	3831	3765	3734
20°	3761	3668	3643
25°	3676	3561	3549
30°	3572	3440	3455
35°	3463	3325	3368
40°	3338	3204	3287
45°	3198	3083	3195
50°	3049	2953	3100
55°	2877	2798	2993
60°	2665	2620	2891
65°	2420	2381	2657
70°	2096	2122	2320
75°	1667	1772	1830
80°	1147	1320	1381
85°	638	974	1237

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3198 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.9	3.9
10°-20°	762.7	10.9
20°-30°	1111.3	15.9
30°-40°	1282.6	18.3
40°-50°	1272.8	18.2
50°-60°	1091.9	15.6
60°-70°	766.4	11.0
70°-80°	362.5	5.2
80°-90°	75.0	1.1
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°	2146.9	30.7
0°-40°	3429.4	49.0
0°-60°	5794.2	82.8
0°-90°	6998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6998.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2905	2905	2905	2905	2905	
5°	2895	2892	2885	2867	2873	275
15°	2750	2737	2703	2676	2681	775
25°	2476	2446	2398	2380	2390	1139
35°	2108	2068	2025	2031	2050	1317
45°	1681	1646	1620	1655	1679	1296
55°	1226	1195	1193	1242	1276	1095
65°	760	736	748	808	834	753
75°	321	311	341	356	352	346
85°	41	50	63	75	80	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2905.2	2905.2	2905.2	2905.2	2905.2
2.5°	2908.7	2910.8	2905.2	2884.7	2887.4
5°	2895.0	2892.3	2884.7	2866.9	2873.1
7.5°	2871.6	2868.1	2854.5	2834.0	2838.1
10°	2840.5	2833.6	2813.9	2788.7	2792.8
12.5°	2800.5	2791.8	2764.3	2736.6	2741.4
15°	2750.2	2737.3	2703.2	2675.5	2680.9
17.5°	2692.3	2678.6	2638.0	2608.1	2618.5
20°	2626.8	2607.7	2561.5	2534.5	2544.4
22.5°	2555.0	2530.6	2483.0	2458.1	2467.3
25°	2475.9	2445.9	2398.5	2379.7	2390.3
27.5°	2390.3	2357.8	2310.4	2294.4	2309.2
30°	2299.4	2264.6	2214.0	2207.7	2223.8
32.5°	2206.3	2169.7	2120.3	2121.7	2137.8
35°	2108.5	2068.3	2024.6	2030.8	2050.4
37.5°	2003.8	1965.7	1923.3	1942.7	1961.6
40°	1900.5	1861.0	1824.1	1849.7	1871.4
42.5°	1793.0	1755.6	1723.5	1753.3	1778.4
45°	1680.6	1646.1	1620.2	1654.8	1679.2
47.5°	1568.2	1533.7	1516.1	1554.3	1582.1
50°	1456.7	1424.2	1410.7	1453.5	1480.9
52.5°	1340.3	1309.1	1303.9	1348.1	1380.9
55°	1226.5	1194.7	1192.9	1242.5	1276.1
57.5°	1109.4	1085.2	1084.6	1139.0	1179.4
60°	990.3	965.9	973.7	1037.7	1074.5
62.5°	874.4	850.2	859.1	929.8	954.0
65°	760.2	735.7	748.0	808.2	834.5
67.5°	648.0	624.8	645.9	700.5	716.9
70°	532.9	512.5	539.5	583.5	589.7
72.5°	425.4	407.8	440.2	467.5	466.7
75°	320.7	310.6	340.8	355.5	352.0
77.5°	229.2	223.9	249.6	256.9	253.9
80°	148.0	151.5	170.4	174.9	178.2
82.5°	86.0	92.8	107.0	122.6	126.1
85°	41.3	49.5	63.1	75.4	80.1
87.5°	14.4	19.8	26.1	28.8	28.1
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	15.51	17.09	15.87	17.41	17.72	15.87	17.46	16.24	17.77	18.08
	3H	16.94	18.37	17.32	18.69	19.06	17.46	18.88	17.84	19.21	19.57
	4H	17.37	18.70	17.76	19.05	19.43	17.91	19.25	18.31	19.60	19.97
	6H	17.58	18.81	17.99	19.18	19.57	18.15	19.39	18.57	19.76	20.15
	8H	17.61	18.79	18.03	19.18	19.58	18.22	19.40	18.65	19.79	20.19
	12H	17.61	18.74	18.04	19.12	19.55	18.26	19.39	18.69	19.77	20.20
4H	2H	16.04	17.38	16.44	17.73	18.10	16.34	17.68	16.74	18.03	18.40
	3H	17.66	18.77	18.07	19.17	19.57	18.13	19.24	18.54	19.64	20.04
	4H	18.16	19.17	18.60	19.58	20.02	18.69	19.69	19.12	20.10	20.54
	6H	18.46	19.33	18.91	19.77	20.23	19.02	19.89	19.48	20.33	20.79
	8H	18.51	19.32	18.97	19.76	20.23	19.12	19.93	19.58	20.37	20.84
	12H	18.53	19.26	19.01	19.73	20.20	19.19	19.92	19.67	20.40	20.87
8H	4H	18.38	19.19	18.84	19.64	20.10	18.85	19.67	19.32	20.11	20.58
	6H	18.73	19.41	19.23	19.90	20.37	19.26	19.93	19.75	20.42	20.90
	8H	18.82	19.42	19.33	19.93	20.41	19.40	20.00	19.91	20.51	21.00
	12H	18.86	19.40	19.37	19.89	20.45	19.53	20.06	20.03	20.55	21.11
12H	4H	18.39	19.12	18.87	19.59	20.06	18.85	19.58	19.33	20.06	20.53
	6H	18.75	19.35	19.26	19.86	20.35	19.26	19.86	19.77	20.37	20.86
	8H	18.87	19.40	19.38	19.89	20.45	19.44	19.97	19.95	20.46	21.03