

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: P1499070

Luminaire Tested: MAE-G-4-120-1LO-STD-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499070
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-4-120-1LO-STD-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

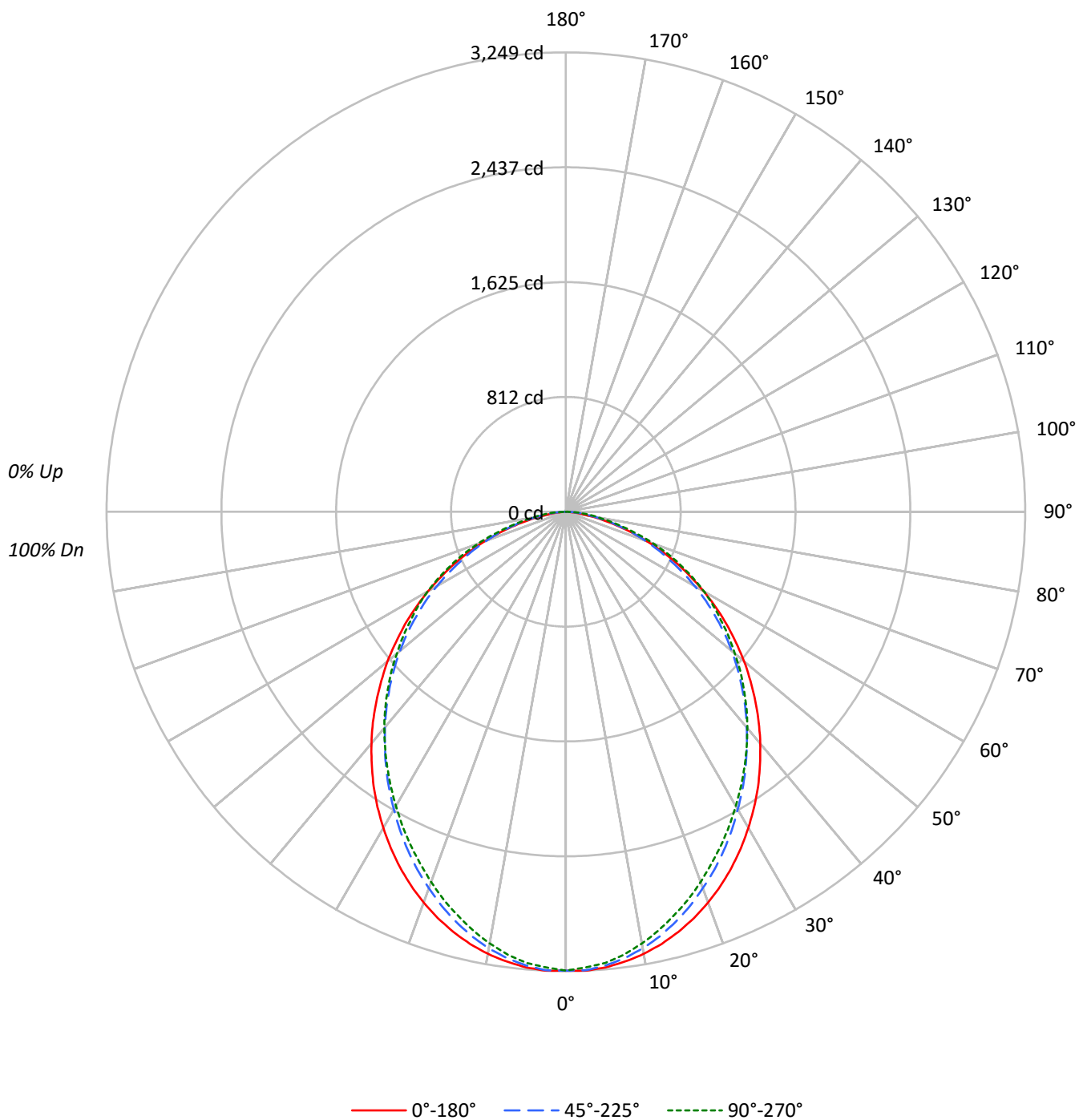
Lumens per Lamp: N/A
Luminaire Lumens: 7717.0 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 92.5
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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	84	73	64	58	82	71	63	57	69	62	56		66	60	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	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4367	4367	4367
5°	4368	4350	4326
10°	4338	4284	4235
15°	4284	4182	4117
20°	4211	4057	3989
25°	4120	3924	3860
30°	4011	3778	3734
35°	3893	3640	3618
40°	3758	3496	3509
45°	3607	3355	3390
50°	3446	3206	3267
55°	3259	3034	3143
60°	3030	2838	3042
65°	2762	2592	2861
70°	2401	2350	2602
75°	1922	2037	2217
80°	1336	1626	1834
85°	750	1274	1690

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3607 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.4	3.9
10°-20°	846.6	11.0
20°-30°	1226.2	15.9
30°-40°	1407.2	18.2
40°-50°	1389.2	18.0
50°-60°	1187.3	15.4
60°-70°	841.4	10.9
70°-80°	419.3	5.4
80°-90°	95.5	1.2
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°	2377.1	30.8
0°-40°	3784.3	49.0
0°-60°	6360.9	82.4
0°-90°	7717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7717.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3245	3245	3245	3245	3245	
5°	3234	3232	3221	3196	3203	307
15°	3076	3056	3002	2953	2955	867
25°	2775	2728	2643	2596	2600	1277
35°	2370	2305	2216	2193	2203	1481
45°	1896	1833	1763	1769	1782	1462
55°	1389	1332	1293	1317	1340	1240
65°	867	822	814	873	899	858
75°	370	350	392	422	426	399
85°	49	60	82	101	110	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3245.3	3245.3	3245.3	3245.3	3245.3
2.5°	3248.8	3251.8	3245.3	3219.7	3224.9
5°	3234.4	3231.8	3221.0	3195.5	3203.0
7.5°	3208.8	3203.8	3184.4	3153.5	3158.2
10°	3175.0	3165.0	3135.4	3096.6	3099.9
12.5°	3130.8	3116.9	3074.9	3029.9	3032.9
15°	3075.8	3056.0	3001.9	2952.9	2955.4
17.5°	3012.7	2989.2	2923.0	2869.6	2876.5
20°	2941.3	2910.0	2833.2	2781.3	2786.2
22.5°	2862.2	2823.3	2741.9	2690.5	2692.9
25°	2775.2	2728.3	2643.2	2596.5	2599.8
27.5°	2681.7	2629.7	2540.7	2496.7	2503.5
30°	2581.7	2525.3	2431.6	2396.3	2403.5
32.5°	2478.7	2418.3	2325.2	2296.8	2304.0
35°	2370.4	2304.8	2215.8	2192.9	2202.6
37.5°	2254.5	2190.8	2102.2	2091.8	2100.4
40°	2139.5	2073.6	1990.5	1986.3	1997.6
42.5°	2019.8	1955.6	1878.0	1878.5	1892.0
45°	1895.7	1833.1	1763.0	1769.1	1781.6
47.5°	1770.4	1709.0	1648.3	1657.9	1674.0
50°	1646.3	1586.5	1531.5	1546.6	1560.7
52.5°	1515.1	1458.5	1414.2	1431.3	1451.9
55°	1389.1	1331.6	1293.3	1317.0	1339.9
57.5°	1258.3	1209.0	1175.1	1207.0	1237.1
60°	1125.8	1077.6	1054.5	1100.0	1130.3
62.5°	995.5	948.8	932.7	990.4	1014.5
65°	867.4	821.9	814.3	872.9	898.7
67.5°	739.7	698.6	706.3	766.0	784.3
70°	610.3	573.3	597.4	649.9	661.3
72.5°	488.1	457.5	494.7	535.2	540.6
75°	369.7	350.0	391.9	422.3	426.4
77.5°	265.0	254.7	295.5	319.2	324.2
80°	172.4	176.1	209.8	229.4	236.7
82.5°	100.8	110.6	137.5	162.5	170.0
85°	48.6	60.3	82.5	101.4	109.5
87.5°	16.7	24.5	34.7	38.6	37.5
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	15.94	17.53	16.31	17.84	18.15	15.92	17.51	16.29	17.82	18.13
	3H	17.41	18.83	17.78	19.16	19.52	17.62	19.05	18.00	19.38	19.74
	4H	17.84	19.18	18.24	19.53	19.91	18.18	19.52	18.58	19.86	20.24
	6H	18.07	19.31	18.48	19.67	20.06	18.53	19.77	18.94	20.13	20.52
	8H	18.10	19.29	18.53	19.68	20.08	18.64	19.82	19.06	20.21	20.61
	12H	18.11	19.24	18.54	19.62	20.05	18.72	19.85	19.15	20.23	20.66
4H	2H	16.44	17.78	16.84	18.13	18.50	16.42	17.76	16.82	18.11	18.49
	3H	18.09	19.21	18.50	19.61	20.01	18.33	19.45	18.74	19.85	20.25
	4H	18.61	19.62	19.05	20.03	20.47	19.01	20.01	19.44	20.43	20.86
	6H	18.92	19.80	19.38	20.24	20.70	19.47	20.35	19.93	20.79	21.25
	8H	18.98	19.80	19.45	20.25	20.71	19.62	20.44	20.08	20.88	21.35
	12H	19.01	19.74	19.49	20.22	20.69	19.74	20.47	20.22	20.95	21.42
8H	4H	18.85	19.67	19.31	20.11	20.58	19.20	20.02	19.66	20.46	20.93
	6H	19.23	19.91	19.72	20.40	20.87	19.76	20.43	20.25	20.92	21.40
	8H	19.32	19.93	19.83	20.44	20.92	19.97	20.57	20.48	21.08	21.57
	12H	19.38	19.91	19.89	20.41	20.97	20.15	20.69	20.66	21.18	21.74
12H	4H	18.86	19.60	19.35	20.07	20.54	19.20	19.94	19.68	20.41	20.88
	6H	19.26	19.86	19.77	20.37	20.86	19.77	20.37	20.28	20.88	21.37
	8H	19.39	19.93	19.90	20.42	20.98	20.02	20.56	20.53	21.05	21.61