

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: P1498857

Luminaire Tested: MAE-G-2-120-3STD-LO-40

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3STD-LO-40
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

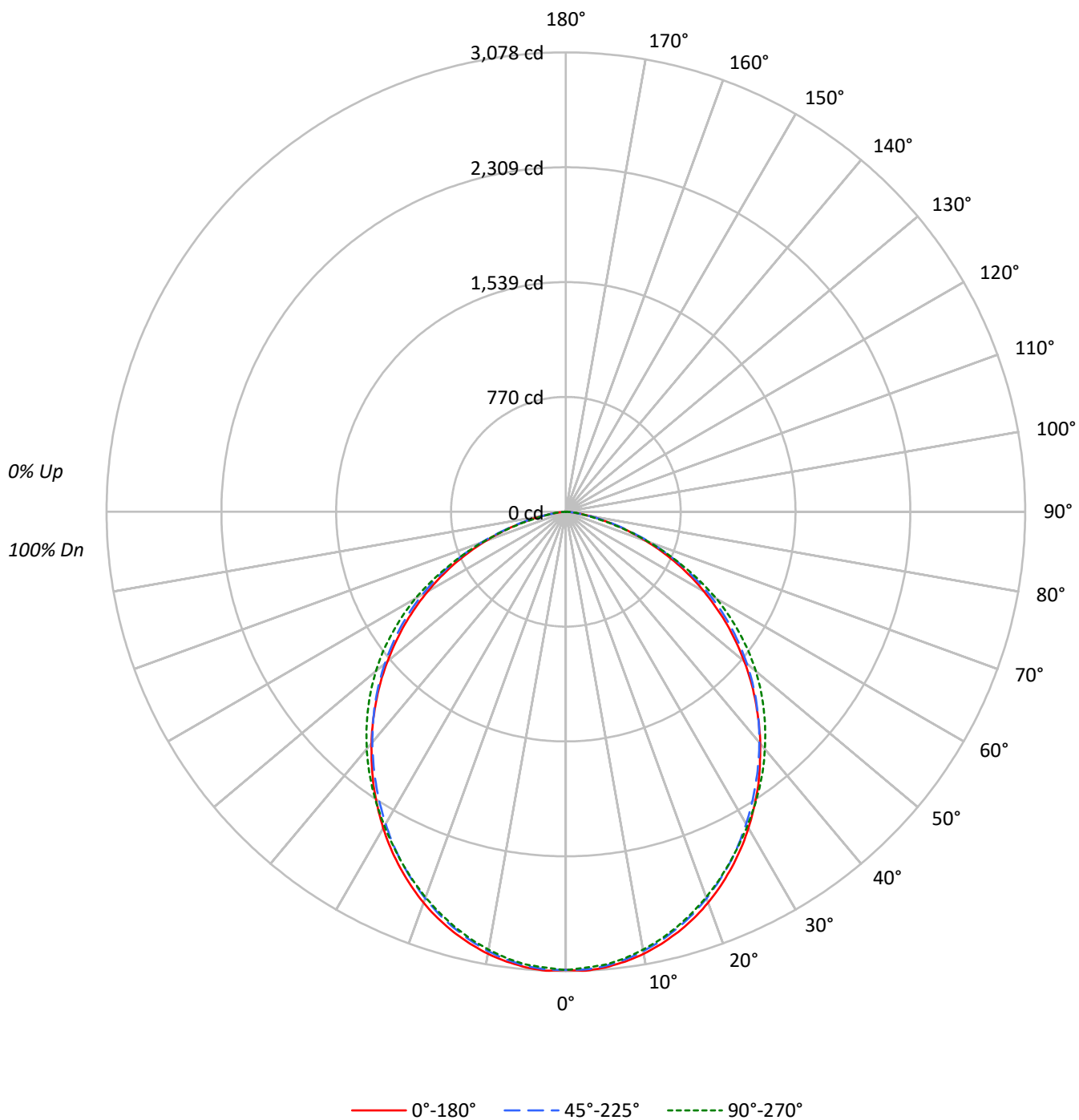
Lumens per Lamp: N/A
Luminaire Lumens: 7589.0 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 76.8
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	93	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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8262	8262	8262
5°	8277	8252	8228
10°	8219	8172	8141
15°	8119	8047	8020
20°	7984	7895	7872
25°	7808	7714	7707
30°	7606	7506	7555
35°	7377	7293	7428
40°	7119	7085	7291
45°	6839	6872	7137
50°	6533	6628	6953
55°	6190	6344	6670
60°	5762	5977	6278
65°	5230	5470	5577
70°	4498	4727	4644
75°	3567	3706	3380
80°	2391	2352	2091
85°	1216	1408	1670

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7137 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.2	3.8
10°-20°	813.9	10.7
20°-30°	1197.6	15.8
30°-40°	1396.9	18.4
40°-50°	1402.5	18.5
50°-60°	1213.6	16.0
60°-70°	842.2	11.1
70°-80°	371.8	4.9
80°-90°	61.4	0.8
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°	2300.6	30.3
0°-40°	3697.5	48.7
0°-60°	6313.6	83.2
0°-90°	7589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7589.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3070	3070	3070	3070	3070	
5°	3064	3050	3055	3042	3046	291
15°	2914	2896	2889	2874	2879	821
25°	2630	2610	2598	2584	2596	1211
35°	2246	2223	2220	2237	2261	1403
45°	1797	1784	1806	1849	1875	1387
55°	1319	1311	1352	1404	1422	1178
65°	821	825	859	874	876	812
75°	343	349	356	338	325	369
85°	39	41	46	52	54	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3070.1	3070.1	3070.1	3070.1	3070.1
2.5°	3078.1	3064.2	3070.1	3060.3	3057.4
5°	3064.1	3050.2	3054.8	3042.2	3046.0
7.5°	3040.3	3025.9	3027.6	3014.3	3018.1
10°	3007.8	2991.4	2990.6	2976.1	2979.2
12.5°	2964.7	2948.3	2944.5	2928.2	2933.7
15°	2914.2	2896.4	2888.6	2873.6	2878.7
17.5°	2855.5	2836.4	2827.3	2809.4	2817.5
20°	2788.1	2768.1	2757.1	2737.9	2748.9
22.5°	2712.7	2692.3	2679.1	2662.9	2674.4
25°	2629.7	2609.7	2597.9	2583.9	2595.8
27.5°	2542.3	2520.3	2509.1	2501.1	2514.2
30°	2447.8	2425.4	2415.6	2413.1	2431.4
32.5°	2348.0	2326.6	2319.3	2326.5	2347.3
35°	2245.7	2223.2	2219.9	2236.7	2261.0
37.5°	2135.6	2118.0	2119.7	2146.0	2170.9
40°	2026.6	2008.1	2017.0	2049.6	2075.4
42.5°	1914.0	1898.5	1912.6	1952.6	1977.0
45°	1797.2	1783.6	1805.7	1848.8	1875.4
47.5°	1682.9	1668.4	1696.4	1743.1	1771.3
50°	1560.6	1550.3	1583.3	1634.4	1660.9
52.5°	1440.0	1429.9	1468.5	1522.1	1547.2
55°	1319.4	1311.0	1352.2	1403.9	1421.8
57.5°	1194.6	1192.5	1234.0	1278.8	1297.2
60°	1070.6	1069.5	1110.5	1150.8	1166.5
62.5°	946.5	948.3	986.3	1017.5	1021.7
65°	821.3	824.7	859.1	873.5	875.8
67.5°	694.9	701.3	731.1	736.1	734.5
70°	571.7	576.1	600.8	599.0	590.2
72.5°	452.1	459.2	473.0	464.6	451.7
75°	343.1	348.9	356.4	337.7	325.1
77.5°	241.7	245.8	246.1	226.1	217.6
80°	154.3	159.2	151.8	140.6	134.9
82.5°	85.7	90.1	83.7	88.1	90.3
85°	39.4	41.4	45.6	51.7	54.1
87.5°	13.4	15.5	18.5	19.6	18.2
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	18.27	19.85	18.63	20.16	20.48	18.77	20.35	19.13	20.67	20.98
	3H	19.71	21.13	20.09	21.46	21.82	20.14	21.57	20.52	21.90	22.26
	4H	20.12	21.46	20.52	21.81	22.18	20.48	21.82	20.88	22.17	22.55
	6H	20.32	21.55	20.73	21.92	22.31	20.61	21.85	21.02	22.21	22.60
	8H	20.34	21.52	20.77	21.91	22.31	20.63	21.81	21.05	22.19	22.59
	12H	20.34	21.47	20.77	21.85	22.28	20.63	21.76	21.06	22.14	22.57
4H	2H	18.87	20.20	19.27	20.55	20.93	19.27	20.61	19.67	20.96	21.34
	3H	20.48	21.59	20.89	21.99	22.39	20.83	21.94	21.24	22.34	22.74
	4H	20.98	21.98	21.41	22.39	22.83	21.25	22.25	21.68	22.66	23.10
	6H	21.25	22.12	21.70	22.56	23.02	21.44	22.31	21.90	22.75	23.21
	8H	21.28	22.10	21.75	22.54	23.01	21.47	22.28	21.93	22.72	23.19
	12H	21.29	22.02	21.77	22.50	22.97	21.49	22.21	21.97	22.69	23.16
8H	4H	21.16	21.97	21.62	22.41	22.88	21.40	22.21	21.87	22.66	23.12
	6H	21.47	22.14	21.97	22.63	23.11	21.63	22.30	22.13	22.79	23.27
	8H	21.53	22.13	22.05	22.64	23.13	21.68	22.28	22.20	22.79	23.28
	12H	21.56	22.09	22.07	22.58	23.15	21.73	22.26	22.24	22.75	23.31
12H	4H	21.15	21.87	21.63	22.35	22.82	21.40	22.12	21.88	22.60	23.07
	6H	21.46	22.06	21.97	22.57	23.06	21.62	22.22	22.14	22.73	23.22
	8H	21.55	22.08	22.06	22.57	23.14	21.70	22.23	22.21	22.72	23.29