

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: P1498734

Luminaire Tested: MAE-G-2-120-3LO-HI-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498734
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-2-120-3LO-HI-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

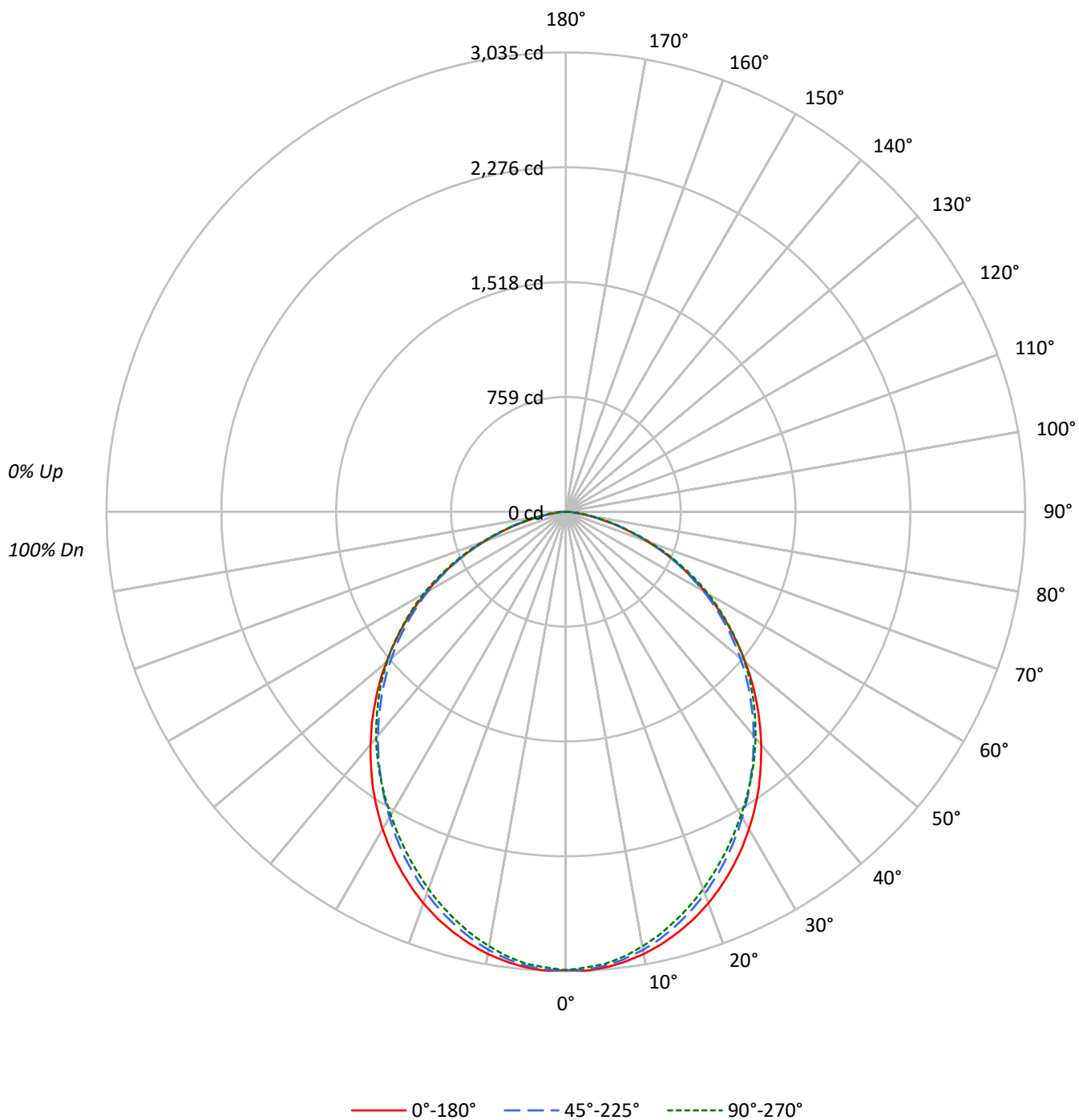
Lumens per Lamp: N/A
Luminaire Lumens: 7359.0 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 79.2
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	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	79	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	56	66	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	42	40		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	34	46	39	34	44	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8148	8148	8148
5°	8162	8132	8096
10°	8107	8032	7968
15°	8011	7877	7792
20°	7883	7689	7595
25°	7714	7478	7386
30°	7521	7244	7191
35°	7302	7010	7022
40°	7053	6781	6849
45°	6782	6551	6662
50°	6486	6297	6450
55°	6150	6008	6177
60°	5736	5647	5852
65°	5224	5183	5339
70°	4515	4572	4659
75°	3604	3758	3726
80°	2455	2665	2726
85°	1291	1843	2362

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6782 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.7	3.9
10°-20°	796.6	10.8
20°-30°	1163.5	15.8
30°-40°	1347.5	18.3
40°-50°	1343.6	18.3
50°-60°	1156.8	15.7
60°-70°	811.2	11.0
70°-80°	380.9	5.2
80°-90°	74.2	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°	2244.7	30.5
0°-40°	3592.3	48.8
0°-60°	6092.7	82.8
0°-90°	7359.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7359.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3028	3028	3028	3028	3028	
5°	3022	3011	3010	2992	2997	287
15°	2875	2855	2827	2795	2797	810
25°	2598	2565	2518	2483	2488	1196
35°	2223	2179	2134	2124	2138	1389
45°	1782	1744	1721	1736	1750	1375
55°	1311	1279	1280	1306	1317	1170
65°	820	802	814	833	838	811
75°	347	342	361	362	358	372
85°	42	48	60	71	76	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3028.0	3028.0	3028.0	3028.0	3028.0
2.5°	3034.7	3025.4	3028.0	3013.5	3013.7
5°	3021.5	3010.9	3010.5	2992.1	2997.0
7.5°	2998.3	2985.8	2980.1	2958.8	2962.6
10°	2966.8	2950.9	2939.4	2913.6	2916.0
12.5°	2924.9	2907.0	2888.3	2858.0	2861.3
15°	2875.4	2854.6	2827.3	2794.8	2797.1
17.5°	2818.2	2793.9	2760.2	2723.4	2728.3
20°	2752.6	2724.9	2684.9	2646.5	2652.3
22.5°	2679.1	2648.4	2603.9	2566.7	2571.4
25°	2598.1	2565.0	2518.5	2482.8	2487.5
27.5°	2512.9	2475.7	2426.7	2395.7	2401.4
30°	2420.5	2381.0	2331.2	2305.2	2314.3
32.5°	2323.2	2282.5	2234.2	2216.0	2227.2
35°	2222.7	2179.3	2133.8	2124.2	2137.5
37.5°	2115.0	2075.2	2033.0	2032.0	2045.3
40°	2007.7	1966.6	1930.4	1935.1	1949.6
42.5°	1896.7	1857.9	1826.9	1838.2	1851.2
45°	1782.2	1744.1	1721.3	1736.3	1750.5
47.5°	1668.5	1630.8	1614.6	1632.8	1649.1
50°	1549.4	1514.7	1504.1	1527.2	1540.7
52.5°	1428.9	1396.2	1393.0	1418.5	1432.7
55°	1310.9	1279.1	1280.5	1306.3	1316.6
57.5°	1188.1	1162.7	1167.1	1191.2	1203.2
60°	1065.8	1042.2	1049.3	1074.9	1087.4
62.5°	943.1	922.7	932.4	956.7	963.7
65°	820.4	802.1	814.0	833.1	838.5
67.5°	695.6	682.4	697.4	713.9	716.8
70°	573.8	560.6	581.1	593.5	592.2
72.5°	455.5	447.7	467.0	475.6	470.8
75°	346.6	341.7	361.4	362.1	358.4
77.5°	245.7	244.0	260.3	259.6	259.1
80°	158.4	162.7	172.0	176.5	175.9
82.5°	89.6	96.3	104.0	117.2	122.7
85°	41.8	47.5	59.7	71.3	76.5
87.5°	14.2	18.4	24.9	27.1	25.6
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	18.22	19.81	18.59	20.12	20.43	18.38	19.96	18.74	20.28	20.59
	3H	19.69	21.11	20.06	21.44	21.80	19.89	21.31	20.26	21.64	22.00
	4H	20.11	21.45	20.51	21.80	22.18	20.33	21.67	20.73	22.02	22.39
	6H	20.33	21.56	20.74	21.93	22.32	20.56	21.80	20.97	22.16	22.56
	8H	20.35	21.54	20.78	21.92	22.32	20.62	21.80	21.04	22.19	22.59
	12H	20.36	21.48	20.78	21.87	22.30	20.65	21.78	21.08	22.17	22.59
4H	2H	18.78	20.11	19.17	20.46	20.84	18.90	20.24	19.30	20.59	20.97
	3H	20.42	21.53	20.83	21.93	22.33	20.60	21.72	21.01	22.12	22.52
	4H	20.93	21.94	21.37	22.35	22.79	21.14	22.14	21.57	22.56	23.00
	6H	21.22	22.10	21.68	22.54	23.00	21.46	22.33	21.91	22.77	23.23
	8H	21.27	22.08	21.73	22.53	22.99	21.54	22.36	22.00	22.80	23.27
	12H	21.29	22.01	21.77	22.49	22.96	21.60	22.33	22.08	22.81	23.28
8H	4H	21.13	21.95	21.59	22.39	22.86	21.32	22.14	21.78	22.58	23.05
	6H	21.48	22.15	21.98	22.64	23.12	21.70	22.38	22.20	22.87	23.34
	8H	21.56	22.16	22.07	22.67	23.15	21.82	22.43	22.34	22.94	23.42
	12H	21.60	22.13	22.10	22.62	23.18	21.93	22.46	22.44	22.95	23.52
12H	4H	21.14	21.86	21.62	22.34	22.81	21.32	22.05	21.80	22.53	23.00
	6H	21.49	22.09	22.00	22.60	23.09	21.70	22.31	22.21	22.81	23.30
	8H	21.60	22.13	22.11	22.62	23.18	21.86	22.39	22.37	22.89	23.45