

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: P1498602

Luminaire Tested: MAE-G-2-120-3HI-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498602
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-2-120-3HI-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

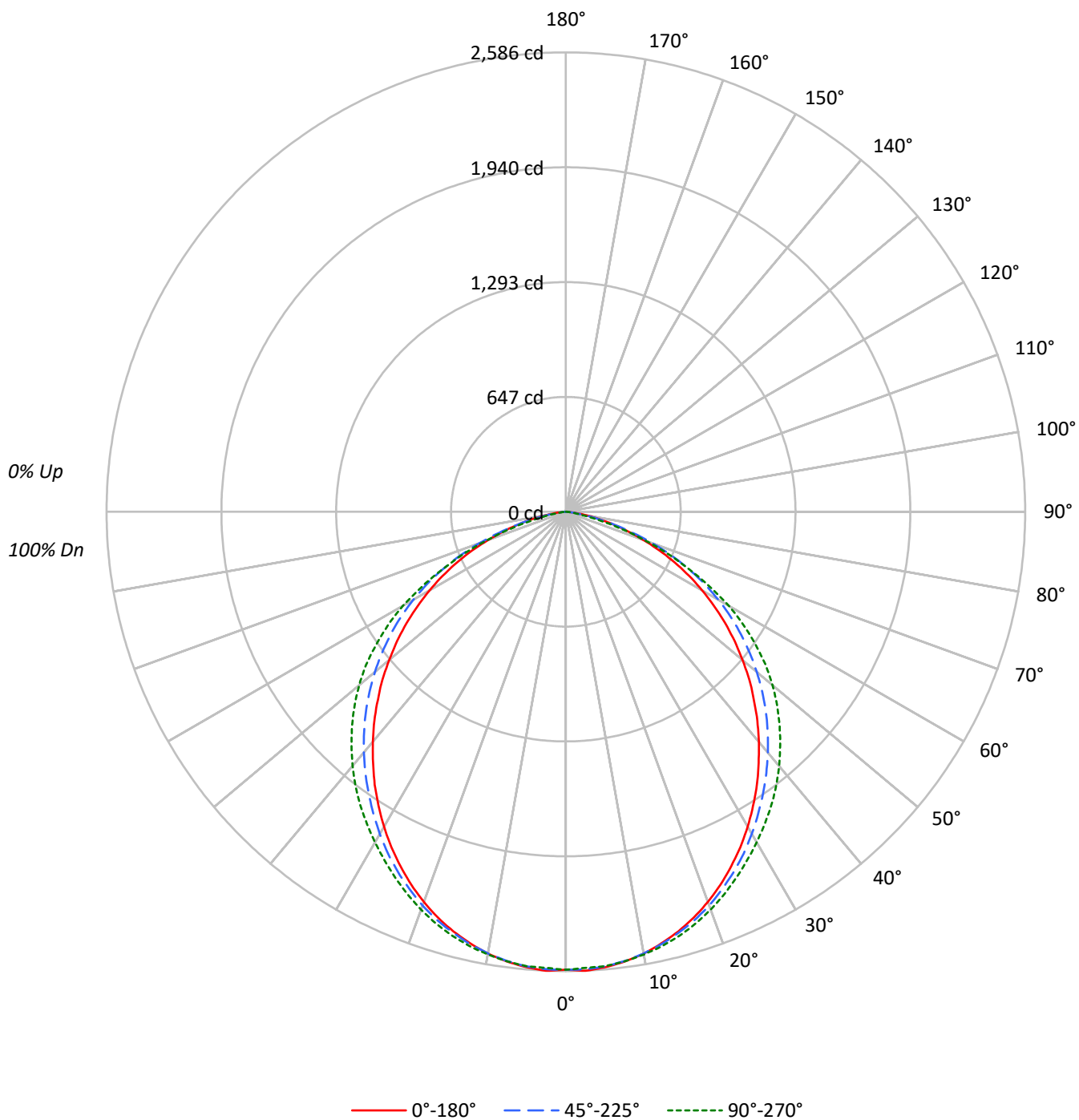
Lumens per Lamp: N/A
Luminaire Lumens: 6534.0 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 67.8
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	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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	65	59	55	53		
5	78	65	56	50	76	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	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6937	6937	6937
5°	6952	6938	6935
10°	6901	6898	6914
15°	6813	6835	6885
20°	6694	6756	6826
25°	6539	6644	6748
30°	6362	6507	6677
35°	6162	6358	6626
40°	5938	6215	6560
45°	5696	6061	6476
50°	5432	5874	6361
55°	5140	5646	6116
60°	4771	5335	5707
65°	4308	4865	4888
70°	3677	4085	3799
75°	2887	2981	2337
80°	1884	1533	905
85°	902	605	479

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6476 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.5	3.7
10°-20°	691.3	10.6
20°-30°	1028.2	15.7
30°-40°	1211.6	18.5
40°-50°	1228.5	18.8
50°-60°	1070.5	16.4
60°-70°	732.1	11.2
70°-80°	294.1	4.5
80°-90°	34.1	0.5
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°	1963.1	30.0
0°-40°	3174.8	48.6
0°-60°	5473.7	83.8
0°-90°	6534.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6534.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2578	2578	2578	2578	2578	
5°	2574	2558	2568	2566	2567	244
15°	2446	2435	2453	2464	2471	689
25°	2202	2203	2238	2254	2273	1014
35°	1876	1884	1936	1983	2017	1172
45°	1497	1517	1593	1664	1702	1155
55°	1096	1119	1204	1279	1304	978
65°	676	707	764	770	768	669
75°	278	296	287	246	225	298
85°	29	26	20	17	16	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2578.0	2578.0	2578.0	2578.0	2578.0
2.5°	2586.3	2569.1	2578.0	2576.2	2569.6
5°	2573.8	2558.2	2568.4	2565.5	2567.2
7.5°	2553.5	2539.3	2549.9	2549.4	2552.3
10°	2525.6	2511.2	2524.4	2526.8	2530.3
12.5°	2488.6	2476.7	2492.8	2497.5	2504.6
15°	2445.6	2434.9	2453.4	2463.5	2471.3
17.5°	2395.5	2386.6	2410.4	2420.0	2430.7
20°	2337.7	2331.2	2359.2	2368.1	2383.7
22.5°	2273.4	2269.9	2299.0	2312.7	2330.6
25°	2202.4	2203.1	2237.6	2253.8	2272.8
27.5°	2128.0	2129.2	2168.5	2191.1	2211.4
30°	2047.5	2051.0	2094.0	2122.0	2148.8
32.5°	1962.2	1969.3	2015.8	2054.1	2083.8
35°	1875.8	1884.1	1935.5	1983.0	2017.0
37.5°	1782.3	1796.0	1853.8	1910.5	1945.5
40°	1690.4	1704.1	1769.1	1831.7	1867.5
42.5°	1595.7	1613.0	1682.1	1751.8	1786.3
45°	1496.8	1516.9	1592.7	1664.2	1701.8
47.5°	1401.9	1419.8	1499.7	1574.2	1613.0
50°	1297.6	1320.2	1403.1	1481.2	1519.4
52.5°	1198.1	1218.9	1304.2	1384.1	1418.6
55°	1095.6	1118.8	1203.5	1279.1	1303.6
57.5°	990.6	1018.7	1100.3	1163.6	1186.8
60°	886.4	914.3	991.3	1043.2	1060.4
62.5°	782.6	812.5	879.8	914.3	914.3
65°	676.5	707.0	764.1	770.1	767.7
67.5°	570.5	600.9	644.4	633.6	626.5
70°	467.3	493.5	519.2	499.5	482.8
72.5°	367.2	392.2	396.4	367.8	346.9
75°	277.7	296.3	286.7	246.2	224.8
77.5°	193.7	204.5	184.2	143.1	125.8
80°	121.6	126.3	98.9	69.7	58.4
82.5°	65.6	66.1	42.9	35.2	32.8
85°	29.2	26.2	19.6	17.3	15.5
87.5°	10.1	9.0	7.1	6.6	5.4
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	17.66	19.24	18.02	19.55	19.87	18.64	20.22	19.00	20.54	20.85
	3H	19.07	20.49	19.44	20.81	21.18	19.84	21.27	20.22	21.59	21.95
	4H	19.46	20.79	19.86	21.14	21.52	20.06	21.39	20.46	21.74	22.12
	6H	19.63	20.87	20.05	21.23	21.62	20.08	21.31	20.49	21.68	22.07
	8H	19.65	20.82	20.07	21.21	21.61	20.05	21.23	20.48	21.62	22.02
	12H	19.64	20.76	20.07	21.15	21.57	20.03	21.15	20.46	21.53	21.96
4H	2H	18.33	19.66	18.73	20.01	20.39	19.12	20.45	19.52	20.80	21.18
	3H	19.90	21.00	20.31	21.40	21.80	20.49	21.59	20.90	21.99	22.39
	4H	20.37	21.37	20.80	21.78	22.22	20.76	21.75	21.19	22.17	22.61
	6H	20.61	21.47	21.07	21.92	22.37	20.81	21.67	21.27	22.11	22.57
	8H	20.63	21.44	21.10	21.88	22.35	20.79	21.59	21.25	22.03	22.50
	12H	20.63	21.35	21.12	21.83	22.30	20.77	21.48	21.25	21.96	22.43
8H	4H	20.52	21.32	20.98	21.77	22.23	20.88	21.68	21.34	22.13	22.59
	6H	20.79	21.45	21.29	21.94	22.42	20.94	21.60	21.43	22.09	22.57
	8H	20.83	21.42	21.34	21.93	22.42	20.91	21.51	21.43	22.02	22.50
	12H	20.85	21.37	21.36	21.86	22.42	20.90	21.42	21.41	21.91	22.48
12H	4H	20.50	21.22	20.98	21.70	22.17	20.87	21.59	21.35	22.06	22.53
	6H	20.76	21.36	21.27	21.86	22.35	20.91	21.51	21.43	22.02	22.50
	8H	20.83	21.35	21.34	21.84	22.41	20.92	21.44	21.42	21.93	22.49