

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: P1498818

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498818
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-HI-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

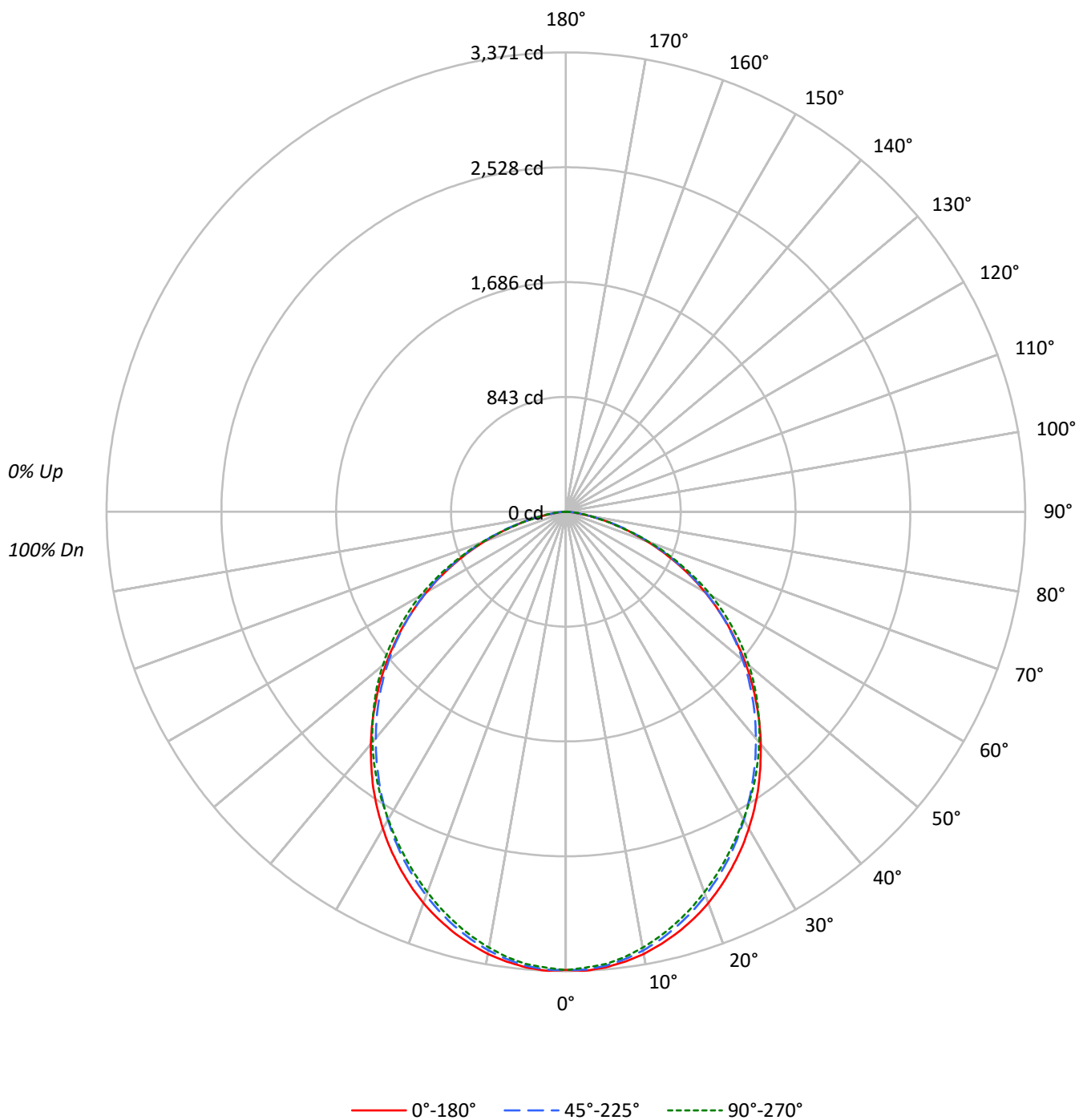
Lumens per Lamp: N/A
Luminaire Lumens: 8228.0 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 94.8
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	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85		
2	100	92	86	81	98	91	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	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	38	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9049	9049	9049
5°	9065	9034	8999
10°	9002	8932	8876
15°	8895	8774	8706
20°	8751	8582	8509
25°	8561	8361	8297
30°	8344	8115	8101
35°	8098	7865	7932
40°	7819	7622	7756
45°	7516	7375	7564
50°	7185	7099	7343
55°	6810	6782	7037
60°	6346	6380	6649
65°	5771	5850	6001
70°	4980	5117	5140
75°	3964	4128	3965
80°	2682	2808	2735
85°	1392	1846	2309

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7564 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.4	3.8
10°-20°	887.3	10.8
20°-30°	1299.9	15.8
30°-40°	1509.8	18.3
40°-50°	1509.6	18.3
50°-60°	1302.4	15.8
60°-70°	909.4	11.1
70°-80°	416.8	5.1
80°-90°	76.4	0.9
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°	2503.6	30.4
0°-40°	4013.4	48.8
0°-60°	6825.4	83.0
0°-90°	8228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8228.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3363	3363	3363	3363	3363	
5°	3356	3343	3344	3327	3332	318
15°	3193	3171	3149	3121	3125	900
25°	2883	2852	2816	2786	2794	1328
35°	2465	2426	2394	2395	2414	1540
45°	1975	1944	1938	1967	1988	1524
55°	1452	1427	1446	1485	1500	1296
65°	906	896	919	938	942	896
75°	381	381	397	389	381	410
85°	45	50	60	70	75	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3362.8	3362.8	3362.8	3362.8	3362.8
2.5°	3370.8	3358.5	3362.8	3348.9	3347.6
5°	3355.7	3342.6	3344.3	3326.6	3331.5
7.5°	3329.8	3315.2	3312.2	3292.2	3296.3
10°	3294.6	3276.9	3268.9	3245.3	3248.2
12.5°	3247.9	3228.8	3214.6	3187.2	3191.9
15°	3192.7	3171.0	3149.4	3121.0	3124.9
17.5°	3128.9	3104.3	3077.8	3045.3	3052.2
20°	3055.8	3028.5	2996.9	2962.8	2971.4
22.5°	2973.7	2944.2	2908.7	2876.8	2884.9
25°	2883.4	2852.5	2816.1	2786.2	2794.5
27.5°	2788.3	2753.8	2716.2	2691.8	2701.4
30°	2685.3	2649.1	2611.6	2592.9	2607.0
32.5°	2576.8	2540.2	2504.7	2495.6	2512.1
35°	2465.0	2426.2	2394.1	2395.0	2414.5
37.5°	2344.9	2310.6	2283.2	2293.9	2313.6
40°	2225.8	2190.1	2169.8	2187.1	2208.0
42.5°	2102.4	2069.7	2055.1	2080.0	2099.3
45°	1975.0	1943.5	1937.9	1966.6	1987.7
47.5°	1849.1	1817.5	1818.8	1851.3	1874.5
50°	1716.2	1688.5	1695.7	1733.4	1754.0
52.5°	1583.1	1556.8	1571.3	1611.7	1632.2
55°	1451.5	1426.6	1445.5	1485.2	1499.9
57.5°	1315.1	1297.2	1318.2	1353.7	1369.7
60°	1179.2	1162.9	1185.5	1220.2	1235.4
62.5°	1043.1	1030.3	1053.3	1083.1	1089.6
65°	906.4	895.8	918.7	937.8	942.4
67.5°	768.0	761.9	784.9	798.1	799.3
70°	632.9	625.9	650.4	657.9	653.3
72.5°	501.5	499.5	518.4	520.6	511.7
75°	381.3	380.6	397.0	389.3	381.4
77.5°	269.7	270.2	281.4	272.2	268.2
80°	173.1	178.2	181.2	179.3	176.5
82.5°	97.3	103.6	106.0	116.8	121.3
85°	45.1	49.8	59.8	70.3	74.8
87.5°	15.4	19.1	24.8	26.7	25.1
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	18.59	20.17	18.95	20.48	20.80	18.88	20.47	19.25	20.78	21.09
	3H	20.04	21.46	20.42	21.79	22.15	20.34	21.76	20.71	22.09	22.45
	4H	20.46	21.80	20.86	22.15	22.53	20.73	22.07	21.13	22.42	22.80
	6H	20.67	21.91	21.08	22.27	22.66	20.92	22.16	21.33	22.52	22.92
	8H	20.69	21.87	21.12	22.26	22.66	20.96	22.14	21.39	22.53	22.93
	12H	20.69	21.82	21.12	22.20	22.63	20.98	22.11	21.41	22.49	22.92
4H	2H	19.16	20.50	19.56	20.84	21.22	19.40	20.74	19.80	21.08	21.46
	3H	20.79	21.90	21.20	22.30	22.70	21.04	22.15	21.45	22.55	22.95
	4H	21.30	22.30	21.73	22.71	23.15	21.53	22.53	21.96	22.94	23.38
	6H	21.58	22.45	22.03	22.89	23.35	21.79	22.66	22.25	23.10	23.56
	8H	21.62	22.43	22.08	22.88	23.34	21.85	22.66	22.31	23.11	23.57
	12H	21.63	22.36	22.11	22.84	23.31	21.89	22.62	22.38	23.10	23.57
8H	4H	21.49	22.30	21.95	22.74	23.21	21.70	22.51	22.16	22.95	23.42
	6H	21.82	22.49	22.32	22.98	23.46	22.02	22.69	22.51	23.18	23.65
	8H	21.89	22.49	22.40	23.00	23.49	22.11	22.71	22.62	23.22	23.70
	12H	21.93	22.46	22.44	22.95	23.51	22.19	22.72	22.70	23.21	23.77
12H	4H	21.49	22.21	21.97	22.69	23.16	21.69	22.42	22.17	22.90	23.37
	6H	21.82	22.42	22.33	22.93	23.42	22.01	22.61	22.52	23.12	23.61
	8H	21.92	22.45	22.43	22.95	23.51	22.14	22.67	22.65	23.16	23.72