

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: P1498578

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2STD-STD-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

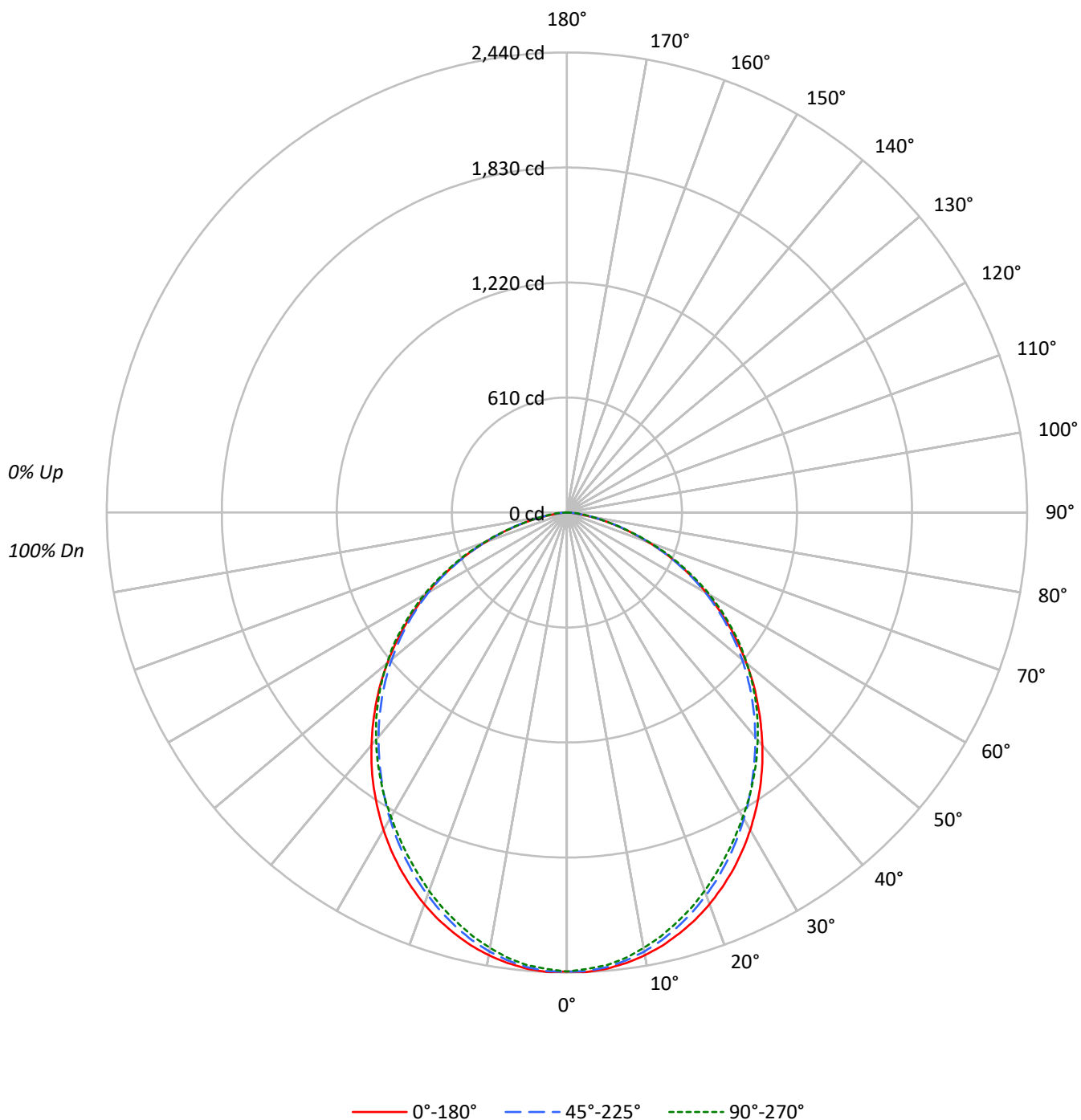
Lumens per Lamp: N/A
Luminaire Lumens: 5916.0 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 69.6
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	81	98	90	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	57	67	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	43	41		
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	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°	6552	6552	6552
5°	6561	6540	6509
10°	6516	6460	6409
15°	6436	6336	6270
20°	6331	6183	6115
25°	6198	6014	5945
30°	6041	5830	5794
35°	5864	5638	5662
40°	5661	5458	5529
45°	5443	5274	5389
50°	5205	5075	5214
55°	4930	4839	4998
60°	4600	4548	4715
65°	4184	4163	4286
70°	3615	3644	3710
75°	2883	2967	2957
80°	1956	2086	2118
85°	1010	1411	1812

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5443 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.9	3.9
10°-20°	640.7	10.8
20°-30°	936.1	15.8
30°-40°	1084.9	18.3
40°-50°	1082.2	18.3
50°-60°	931.7	15.7
60°-70°	651.0	11.0
70°-80°	302.7	5.1
80°-90°	57.7	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°	1805.8	30.5
0°-40°	2890.7	48.9
0°-60°	4904.6	82.9
0°-90°	5916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5916.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2435	2435	2435	2435	2435	
5°	2429	2420	2421	2406	2410	230
15°	2310	2294	2274	2249	2251	651
25°	2088	2063	2025	2000	2002	961
35°	1785	1753	1716	1713	1724	1116
45°	1430	1401	1386	1402	1416	1103
55°	1051	1028	1032	1055	1065	938
65°	657	645	654	666	673	650
75°	277	273	285	285	284	298
85°	33	37	46	55	59	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2434.7	2434.7	2434.7	2434.7	2434.7
2.5°	2439.6	2432.0	2434.7	2423.7	2423.3
5°	2429.0	2420.4	2421.0	2406.5	2409.8
7.5°	2410.3	2400.3	2396.9	2380.4	2383.4
10°	2384.5	2372.0	2364.3	2343.9	2345.4
12.5°	2351.3	2337.0	2323.8	2300.3	2302.6
15°	2310.1	2293.8	2274.4	2249.3	2250.6
17.5°	2264.6	2246.7	2219.7	2193.1	2196.9
20°	2210.9	2191.1	2159.2	2131.6	2135.4
22.5°	2151.3	2128.8	2095.4	2067.8	2069.6
25°	2087.6	2062.6	2025.4	2000.1	2002.4
27.5°	2018.6	1990.6	1952.4	1929.5	1933.9
30°	1944.3	1914.8	1876.1	1858.5	1864.7
32.5°	1866.0	1835.7	1797.9	1787.6	1797.0
35°	1785.0	1752.7	1716.3	1713.1	1723.6
37.5°	1700.6	1668.9	1635.7	1639.3	1650.3
40°	1611.5	1581.5	1553.8	1562.0	1573.9
42.5°	1521.8	1492.7	1470.8	1483.9	1496.7
45°	1430.2	1401.2	1385.8	1402.4	1416.1
47.5°	1339.0	1310.0	1300.5	1319.9	1332.2
50°	1243.2	1217.0	1212.2	1233.5	1245.4
52.5°	1146.4	1122.0	1122.6	1145.8	1160.6
55°	1050.9	1028.1	1031.5	1054.7	1065.3
57.5°	952.6	934.2	939.9	960.8	971.3
60°	854.8	837.7	845.1	865.5	876.0
62.5°	755.9	740.8	750.2	767.8	775.0
65°	657.1	645.4	653.8	665.9	673.1
67.5°	559.8	549.0	558.9	571.1	574.0
70°	459.5	452.1	463.1	471.0	471.5
72.5°	367.0	360.0	371.2	375.2	373.9
75°	277.3	273.4	285.4	284.7	284.4
77.5°	195.7	196.6	203.9	203.7	203.8
80°	126.2	130.6	134.6	137.2	136.7
82.5°	71.1	75.3	80.4	90.4	94.4
85°	32.7	36.9	45.7	54.9	58.7
87.5°	11.1	14.4	19.3	20.8	19.7
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	17.46	19.04	17.82	19.36	19.67	17.65	19.23	18.01	19.54	19.86
	3H	18.93	20.35	19.30	20.68	21.04	19.13	20.55	19.50	20.88	21.24
	4H	19.35	20.69	19.75	21.04	21.41	19.55	20.89	19.95	21.24	21.62
	6H	19.56	20.80	19.97	21.16	21.55	19.77	21.01	20.18	21.38	21.77
	8H	19.59	20.77	20.01	21.16	21.56	19.82	21.00	20.25	21.39	21.79
	12H	19.59	20.72	20.02	21.10	21.53	19.85	20.98	20.28	21.37	21.79
4H	2H	18.01	19.35	18.41	19.70	20.08	18.16	19.50	18.56	19.85	20.23
	3H	19.66	20.77	20.07	21.17	21.57	19.83	20.95	20.24	21.34	21.74
	4H	20.17	21.17	20.60	21.59	22.02	20.35	21.35	20.78	21.77	22.21
	6H	20.46	21.33	20.91	21.77	22.23	20.66	21.53	21.11	21.97	22.43
	8H	20.50	21.32	20.96	21.76	22.22	20.73	21.54	21.19	21.99	22.45
	12H	20.51	21.24	21.00	21.72	22.19	20.79	21.51	21.27	21.99	22.46
8H	4H	20.36	21.17	20.82	21.62	22.08	20.53	21.34	20.99	21.78	22.25
	6H	20.70	21.38	21.20	21.87	22.34	20.89	21.56	21.39	22.05	22.53
	8H	20.78	21.38	21.29	21.89	22.37	21.00	21.60	21.51	22.11	22.60
	12H	20.81	21.34	21.32	21.84	22.40	21.10	21.63	21.61	22.12	22.68
12H	4H	20.36	21.09	20.84	21.57	22.04	20.52	21.25	21.01	21.73	22.20
	6H	20.71	21.31	21.22	21.82	22.31	20.89	21.49	21.40	22.00	22.49
	8H	20.81	21.34	21.32	21.84	22.40	21.04	21.57	21.54	22.06	22.62