

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: P1498542

Luminaire Tested: MAE-G-2-120-2STD-HI-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498542
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-HI-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

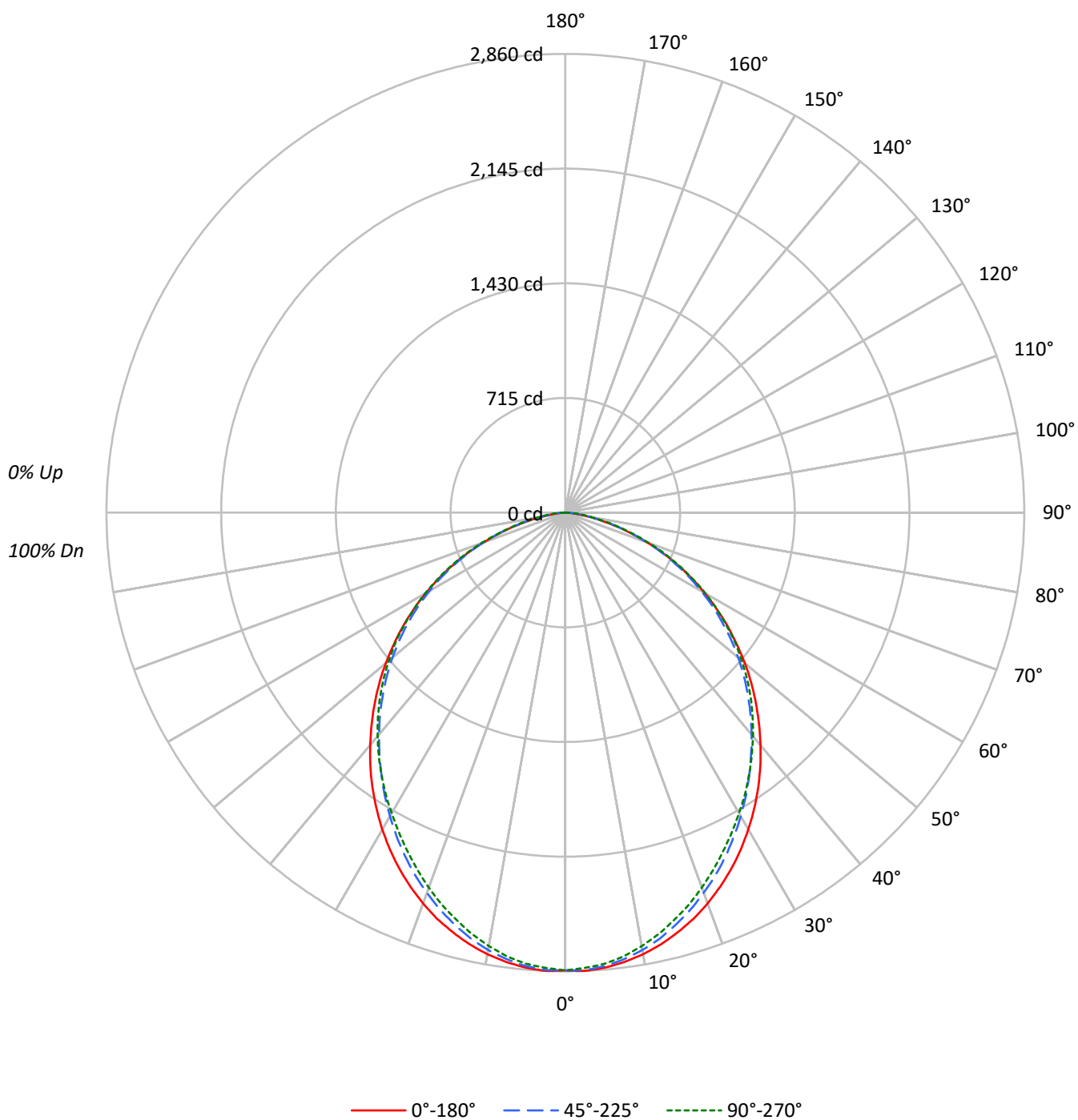
Lumens per Lamp: N/A
Luminaire Lumens: 6903.0 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 77.3
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	92	90		91
2	100	92	86	80	98	90	85	79	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	56		66	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	45	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7681	7681	7681
5°	7691	7664	7626
10°	7638	7566	7497
15°	7546	7412	7320
20°	7425	7223	7125
25°	7270	7016	6914
30°	7088	6792	6724
35°	6882	6563	6558
40°	6645	6345	6391
45°	6391	6124	6217
50°	6113	5886	6005
55°	5793	5608	5752
60°	5408	5267	5439
65°	4924	4826	4984
70°	4260	4252	4373
75°	3402	3511	3570
80°	2320	2540	2661
85°	1210	1778	2319

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6391 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.2	3.9
10°-20°	749.5	10.9
20°-30°	1092.8	15.8
30°-40°	1263.9	18.3
40°-50°	1258.3	18.2
50°-60°	1081.8	15.7
60°-70°	758.3	11.0
70°-80°	358.9	5.2
80°-90°	71.3	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°	2110.5	30.6
0°-40°	3374.5	48.9
0°-60°	5714.5	82.8
0°-90°	6903.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6903.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2854	2854	2854	2854	2854	
5°	2847	2838	2837	2819	2823	270
15°	2709	2689	2660	2627	2627	763
25°	2449	2416	2363	2328	2329	1127
35°	2095	2051	1998	1987	1996	1309
45°	1679	1639	1609	1621	1634	1295
55°	1235	1202	1195	1216	1226	1103
65°	773	754	758	774	783	765
75°	327	320	338	342	343	352
85°	39	45	58	70	75	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2854.2	2854.2	2854.2	2854.2	2854.2
2.5°	2859.7	2851.8	2854.2	2839.9	2840.3
5°	2847.3	2838.1	2837.3	2818.8	2823.1
7.5°	2825.6	2814.2	2808.3	2786.7	2790.2
10°	2795.4	2780.8	2768.8	2742.0	2743.6
12.5°	2756.6	2739.4	2719.9	2688.6	2690.9
15°	2708.6	2688.6	2660.5	2626.6	2627.4
17.5°	2655.4	2632.8	2594.8	2558.4	2562.0
20°	2592.7	2567.2	2522.3	2484.6	2488.0
22.5°	2523.2	2493.8	2446.3	2408.3	2409.0
25°	2448.6	2415.6	2363.1	2327.5	2328.6
27.5°	2367.9	2331.0	2276.3	2243.4	2246.6
30°	2281.0	2241.8	2185.9	2159.0	2164.0
32.5°	2189.6	2148.8	2093.8	2074.8	2083.4
35°	2094.8	2051.2	1997.7	1986.7	1996.3
37.5°	1995.9	1952.9	1902.6	1899.5	1909.4
40°	1891.7	1850.3	1806.1	1808.3	1819.4
42.5°	1786.6	1746.2	1708.6	1716.5	1728.4
45°	1679.4	1638.9	1609.1	1620.9	1633.7
47.5°	1572.2	1532.0	1509.3	1524.4	1536.0
50°	1460.3	1423.1	1406.0	1423.7	1434.3
52.5°	1346.3	1311.7	1301.6	1321.4	1335.8
55°	1234.7	1201.6	1195.4	1215.8	1226.1
57.5°	1119.5	1091.6	1088.8	1108.0	1118.7
60°	1004.8	978.8	978.7	999.1	1010.6
62.5°	888.8	865.3	869.0	888.2	897.3
65°	773.3	753.6	757.9	773.7	782.7
67.5°	658.9	641.1	649.3	666.7	671.1
70°	541.4	527.9	540.4	553.5	555.8
72.5°	432.6	420.7	435.7	445.1	445.3
75°	327.2	319.9	337.7	341.9	343.4
77.5°	231.5	230.9	244.1	248.6	250.8
80°	149.7	154.5	163.9	171.0	171.7
82.5°	84.7	90.5	100.1	114.2	119.7
85°	39.2	45.2	57.6	69.8	75.1
87.5°	13.2	17.7	24.4	26.4	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	18.01	19.60	18.38	19.91	20.22	18.10	19.68	18.46	20.00	20.31
	3H	19.48	20.91	19.86	21.24	21.60	19.62	21.05	20.00	21.37	21.73
	4H	19.91	21.25	20.31	21.60	21.98	20.08	21.42	20.48	21.77	22.14
	6H	20.13	21.37	20.54	21.73	22.12	20.33	21.57	20.74	21.93	22.33
	8H	20.16	21.34	20.58	21.73	22.13	20.40	21.58	20.82	21.97	22.37
	12H	20.16	21.29	20.59	21.67	22.10	20.44	21.57	20.87	21.95	22.38
4H	2H	18.55	19.89	18.95	20.24	20.62	18.62	19.96	19.02	20.31	20.69
	3H	20.21	21.32	20.62	21.72	22.12	20.34	21.45	20.75	21.85	22.25
	4H	20.72	21.73	21.15	22.14	22.58	20.89	21.90	21.33	22.31	22.75
	6H	21.02	21.89	21.47	22.33	22.79	21.24	22.11	21.69	22.55	23.01
	8H	21.06	21.88	21.53	22.32	22.79	21.33	22.14	21.79	22.59	23.05
	12H	21.08	21.81	21.56	22.29	22.76	21.40	22.13	21.88	22.60	23.07
8H	4H	20.92	21.74	21.38	22.18	22.64	21.08	21.89	21.54	22.33	22.80
	6H	21.27	21.95	21.77	22.44	22.91	21.49	22.16	21.98	22.65	23.12
	8H	21.35	21.95	21.86	22.46	22.95	21.62	22.22	22.13	22.73	23.22
	12H	21.39	21.92	21.90	22.41	22.98	21.74	22.27	22.25	22.76	23.32
12H	4H	20.92	21.65	21.41	22.13	22.60	21.07	21.80	21.56	22.28	22.75
	6H	21.28	21.89	21.79	22.39	22.88	21.49	22.09	22.00	22.60	23.09
	8H	21.39	21.93	21.90	22.42	22.98	21.66	22.19	22.17	22.68	23.25