

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: P1498397

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498397
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-2-120-2HI-STD-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

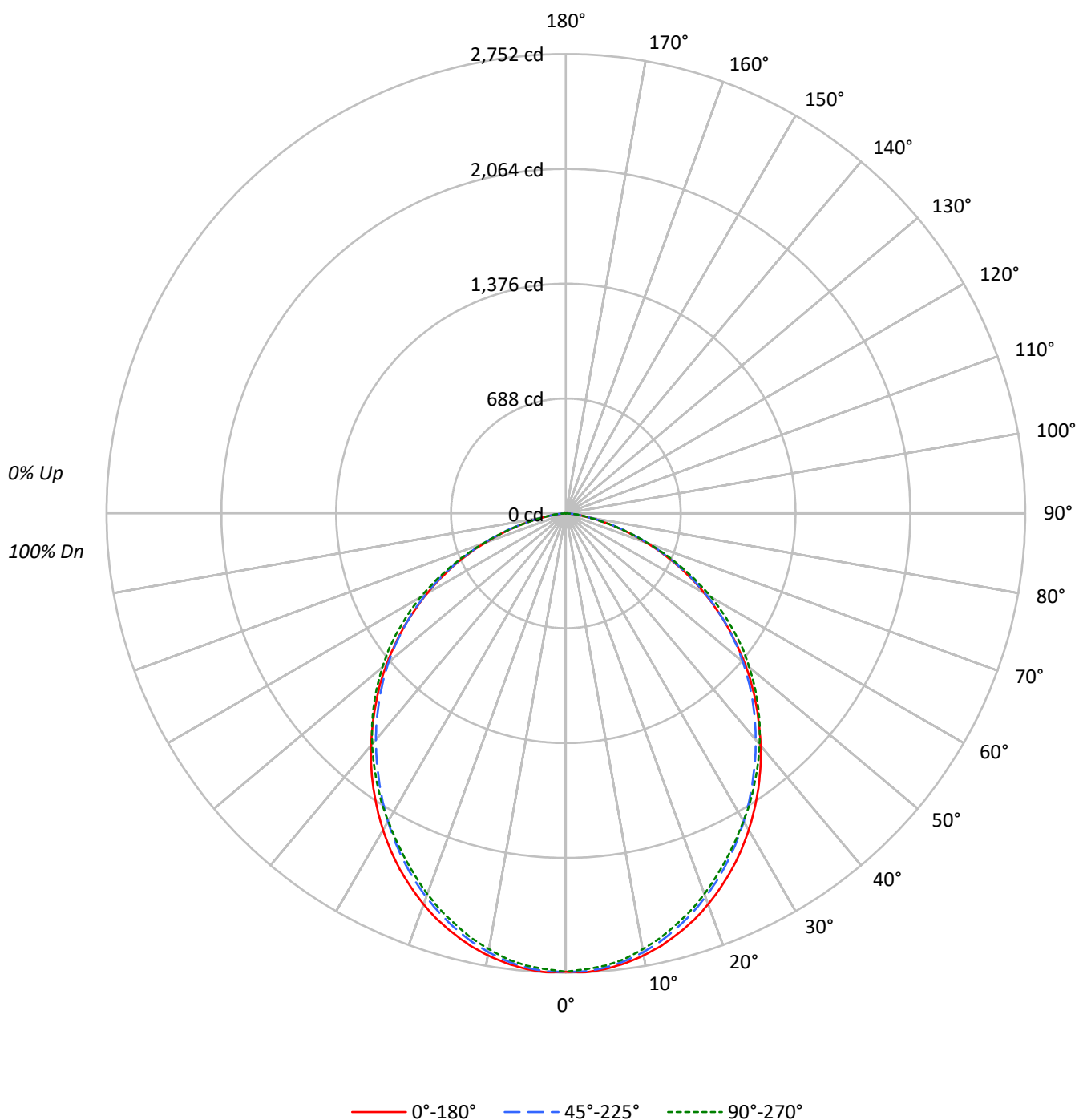
Lumens per Lamp: N/A
Luminaire Lumens: 6710.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 80
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	81	98	91	85	80	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	57		67	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	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7390	7390	7390
5°	7401	7378	7348
10°	7348	7295	7247
15°	7257	7165	7107
20°	7138	7003	6948
25°	6987	6821	6771
30°	6807	6623	6614
35°	6606	6414	6479
40°	6375	6218	6340
45°	6127	6017	6194
50°	5856	5797	6005
55°	5545	5534	5760
60°	5171	5204	5420
65°	4699	4758	4881
70°	4052	4133	4156
75°	3224	3310	3214
80°	2174	2241	2182
85°	1108	1451	1822

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6194 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.4	3.9
10°-20°	724.5	10.8
20°-30°	1061.2	15.8
30°-40°	1232.8	18.4
40°-50°	1232.6	18.4
50°-60°	1063.0	15.8
60°-70°	739.9	11.0
70°-80°	336.8	5.0
80°-90°	60.8	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°	2044.1	30.5
0°-40°	3276.9	48.8
0°-60°	5572.5	83.0
0°-90°	6710.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6710.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2746	2746	2746	2746	2746	
5°	2740	2729	2731	2717	2720	260
15°	2605	2588	2572	2549	2551	734
25°	2353	2329	2297	2276	2280	1083
35°	2011	1981	1953	1957	1972	1257
45°	1610	1585	1581	1608	1628	1242
55°	1182	1164	1180	1213	1228	1056
65°	738	731	747	759	767	730
75°	310	309	318	312	309	334
85°	36	40	47	56	59	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2746.2	2746.2	2746.2	2746.2	2746.2
2.5°	2751.9	2742.0	2746.2	2735.2	2733.7
5°	2739.8	2729.3	2731.3	2716.8	2720.2
7.5°	2718.7	2706.8	2705.3	2689.2	2692.6
10°	2689.3	2675.1	2669.7	2650.2	2652.1
12.5°	2651.7	2636.0	2625.8	2603.6	2606.9
15°	2605.0	2587.7	2571.8	2549.1	2551.1
17.5°	2553.6	2535.2	2512.1	2488.1	2493.3
20°	2492.5	2472.9	2445.6	2420.6	2426.4
22.5°	2425.1	2403.1	2375.0	2350.5	2354.4
25°	2353.1	2329.0	2297.4	2275.9	2280.5
27.5°	2274.9	2248.2	2216.6	2197.8	2204.8
30°	2190.8	2163.1	2131.4	2119.1	2128.5
32.5°	2102.2	2074.2	2043.9	2040.3	2053.8
35°	2010.8	1980.9	1952.6	1957.2	1972.1
37.5°	1915.6	1886.4	1862.2	1874.8	1890.4
40°	1814.7	1787.8	1770.1	1788.3	1804.9
42.5°	1713.3	1687.8	1676.7	1700.4	1718.4
45°	1609.9	1584.8	1581.1	1608.4	1627.7
47.5°	1507.3	1481.7	1484.5	1515.3	1532.5
50°	1398.9	1376.8	1384.7	1417.3	1434.4
52.5°	1290.0	1269.7	1283.1	1317.6	1337.9
55°	1182.0	1163.6	1179.5	1213.4	1227.7
57.5°	1071.2	1057.5	1075.2	1104.9	1118.7
60°	960.8	948.5	967.0	994.2	1007.1
62.5°	849.4	839.2	858.2	879.7	887.3
65°	737.9	731.3	747.2	759.1	766.6
67.5°	628.5	622.0	637.2	647.4	649.4
70°	515.0	512.3	525.3	529.6	528.2
72.5°	411.1	407.6	418.0	417.2	413.6
75°	310.1	308.9	318.4	311.7	309.1
77.5°	218.4	221.4	224.1	218.2	216.1
80°	140.3	145.5	144.6	142.9	140.8
82.5°	78.6	82.5	83.9	92.5	96.0
85°	35.9	39.5	47.0	55.5	59.0
87.5°	12.2	15.2	19.6	21.0	19.9
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	17.87	19.46	18.24	19.77	20.09	18.18	19.76	18.55	20.08	20.39
	3H	19.33	20.76	19.71	21.09	21.45	19.61	21.04	19.99	21.36	21.73
	4H	19.76	21.09	20.16	21.44	21.82	20.01	21.34	20.40	21.69	22.07
	6H	19.96	21.20	20.37	21.56	21.95	20.19	21.42	20.60	21.79	22.18
	8H	19.99	21.16	20.41	21.55	21.95	20.22	21.40	20.65	21.79	22.19
	12H	19.98	21.11	20.41	21.49	21.92	20.24	21.37	20.67	21.75	22.18
4H	2H	18.44	19.78	18.84	20.13	20.51	18.69	20.03	19.09	20.38	20.75
	3H	20.08	21.19	20.49	21.59	21.99	20.31	21.42	20.72	21.82	22.22
	4H	20.59	21.59	21.02	22.00	22.44	20.79	21.79	21.22	22.20	22.64
	6H	20.87	21.74	21.32	22.18	22.64	21.04	21.91	21.50	22.35	22.81
	8H	20.91	21.72	21.37	22.16	22.63	21.10	21.91	21.56	22.35	22.82
	12H	20.92	21.64	21.40	22.12	22.59	21.14	21.87	21.62	22.34	22.81
8H	4H	20.77	21.58	21.23	22.02	22.49	20.95	21.76	21.41	22.21	22.67
	6H	21.10	21.77	21.60	22.26	22.74	21.26	21.93	21.76	22.42	22.90
	8H	21.17	21.77	21.68	22.28	22.76	21.35	21.95	21.86	22.45	22.94
	12H	21.20	21.73	21.71	22.22	22.79	21.42	21.95	21.93	22.44	23.01
12H	4H	20.77	21.49	21.25	21.97	22.44	20.95	21.67	21.43	22.15	22.62
	6H	21.10	21.70	21.61	22.21	22.70	21.25	21.86	21.77	22.36	22.85
	8H	21.20	21.73	21.71	22.22	22.78	21.38	21.90	21.88	22.40	22.96