

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: P1498097

Luminaire Tested: MAE-G-2-120-1HI-STD-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-1HI-STD-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

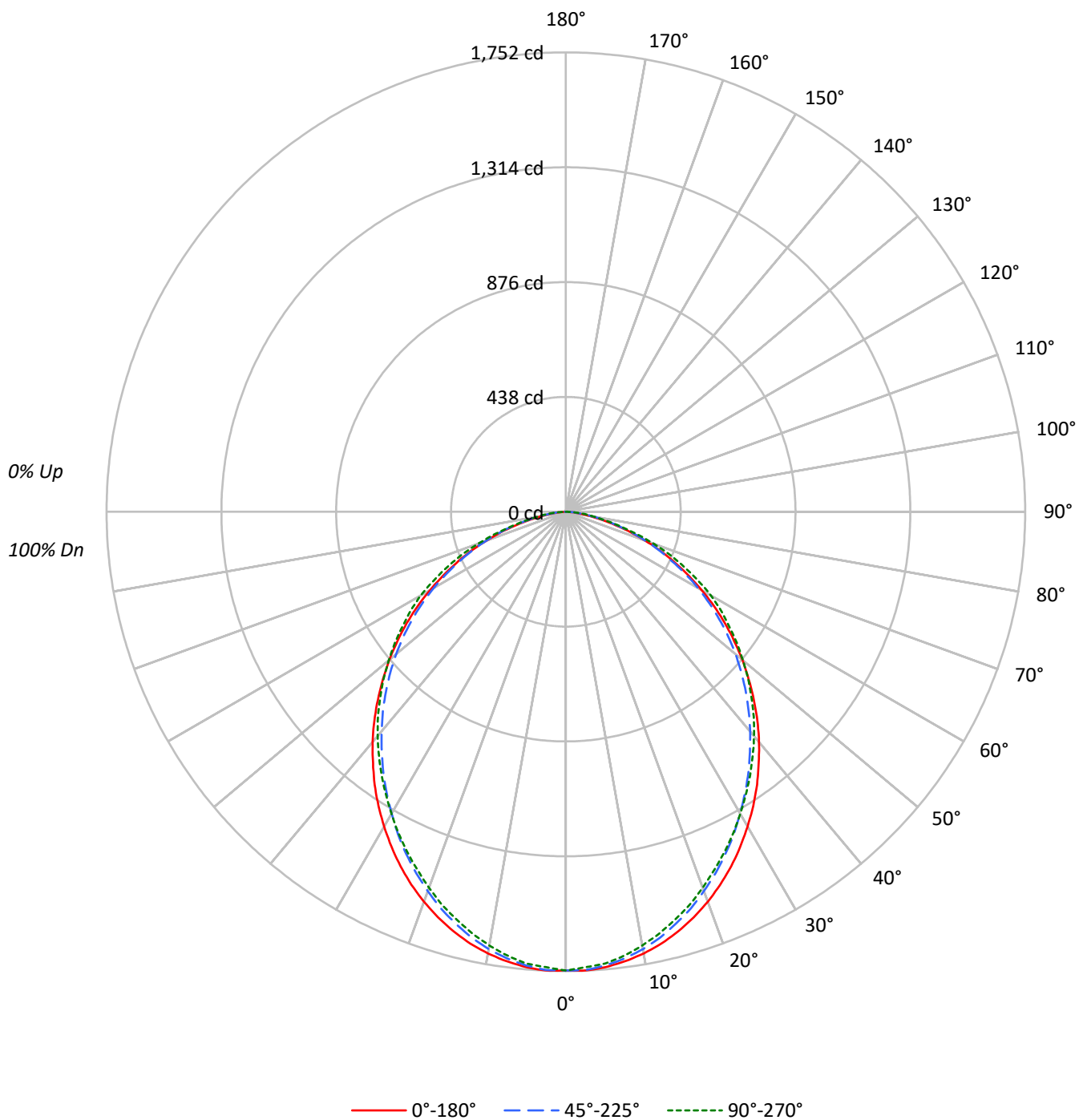
Lumens per Lamp: N/A
Luminaire Lumens: 4203.0 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 57.4
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	80	98	90	84	79	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		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	43	41
7	67	53	45	39	65	53	45	39	51	44	39		50	43	38		48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45	39	34	32
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38	32	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4708	4708	4708
5°	4709	4692	4671
10°	4674	4628	4589
15°	4615	4529	4485
20°	4532	4408	4370
25°	4430	4277	4251
30°	4307	4129	4134
35°	4176	3988	4025
40°	4026	3840	3923
45°	3859	3693	3809
50°	3681	3536	3691
55°	3475	3350	3561
60°	3221	3136	3441
65°	2928	2853	3177
70°	2537	2552	2796
75°	2021	2146	2242
80°	1393	1621	1726
85°	778	1213	1556

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3859 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	3.9
10°-20°	458.7	10.9
20°-30°	667.5	15.9
30°-40°	769.5	18.3
40°-50°	762.9	18.2
50°-60°	654.0	15.6
60°-70°	459.9	10.9
70°-80°	219.8	5.2
80°-90°	46.4	1.1
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°	1290.5	30.7
0°-40°	2060.0	49.0
0°-60°	3476.8	82.7
0°-90°	4203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4203.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1749	1749	1749	1749	1749	
5°	1743	1742	1737	1726	1729	165
15°	1656	1648	1626	1607	1610	467
25°	1492	1472	1440	1426	1432	687
35°	1271	1245	1214	1215	1225	794
45°	1014	991	970	988	1001	782
55°	741	719	714	740	759	661
65°	460	443	448	483	499	455
75°	194	187	206	217	216	210
85°	25	30	39	47	50	36
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1749.4	1749.4	1749.4	1749.4	1749.4
2.5°	1751.5	1752.8	1749.4	1736.8	1738.6
5°	1743.3	1741.7	1736.9	1725.5	1729.3
7.5°	1729.3	1727.1	1718.4	1705.2	1707.6
10°	1710.6	1706.2	1693.6	1677.2	1679.5
12.5°	1686.6	1680.9	1663.1	1644.9	1647.5
15°	1656.4	1648.1	1625.8	1607.1	1610.0
17.5°	1621.8	1612.6	1585.8	1565.7	1571.5
20°	1582.5	1569.9	1539.4	1520.7	1526.0
22.5°	1539.4	1523.4	1491.7	1474.2	1478.8
25°	1491.9	1472.4	1440.4	1426.3	1431.7
27.5°	1440.6	1419.3	1386.9	1374.4	1382.2
30°	1386.0	1363.2	1328.7	1321.8	1330.3
32.5°	1330.0	1305.9	1272.0	1269.6	1278.1
35°	1271.3	1244.9	1214.1	1214.7	1225.1
37.5°	1208.3	1183.2	1153.0	1161.3	1171.3
40°	1146.2	1120.0	1093.2	1105.1	1116.8
42.5°	1081.5	1056.5	1032.7	1047.1	1060.6
45°	1013.9	990.6	970.5	987.8	1000.9
47.5°	946.4	923.0	908.0	927.3	942.5
50°	879.2	857.1	844.6	866.9	881.6
52.5°	809.0	787.9	780.6	803.7	821.6
55°	740.6	719.1	714.1	740.4	759.1
57.5°	670.1	653.1	649.1	678.8	701.5
60°	598.4	581.4	582.7	618.4	639.4
62.5°	528.6	511.8	514.3	554.7	568.9
65°	459.8	443.0	448.1	483.4	498.9
67.5°	391.9	376.3	387.3	419.9	429.9
70°	322.5	308.7	324.3	351.1	355.4
72.5°	257.6	245.7	265.4	282.9	283.1
75°	194.4	187.3	206.4	216.8	215.6
77.5°	139.0	135.3	152.1	158.2	157.3
80°	89.9	92.0	104.6	109.0	111.4
82.5°	52.3	56.6	66.4	76.6	79.1
85°	25.2	30.4	39.3	47.2	50.4
87.5°	8.7	12.2	16.3	18.1	17.6
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	16.17	17.75	16.53	18.06	18.38	16.45	18.04	16.82	18.35	18.66
	3H	17.61	19.03	17.98	19.36	19.72	18.06	19.49	18.44	19.81	20.17
	4H	18.03	19.37	18.43	19.72	20.09	18.53	19.87	18.93	20.22	20.60
	6H	18.24	19.48	18.66	19.85	20.24	18.80	20.03	19.21	20.40	20.79
	8H	18.28	19.46	18.70	19.85	20.25	18.87	20.05	19.30	20.44	20.84
	12H	18.28	19.41	18.71	19.79	20.22	18.92	20.05	19.35	20.43	20.86
4H	2H	16.69	18.03	17.09	18.38	18.75	16.93	18.26	17.33	18.61	18.99
	3H	18.32	19.43	18.73	19.83	20.23	18.74	19.85	19.15	20.25	20.65
	4H	18.82	19.83	19.26	20.24	20.68	19.32	20.32	19.75	20.74	21.17
	6H	19.12	19.99	19.57	20.43	20.89	19.68	20.55	20.13	20.99	21.45
	8H	19.17	19.99	19.63	20.43	20.90	19.78	20.60	20.24	21.04	21.51
	12H	19.19	19.92	19.67	20.40	20.87	19.87	20.60	20.35	21.07	21.54
8H	4H	19.04	19.86	19.50	20.30	20.77	19.49	20.31	19.95	20.75	21.22
	6H	19.40	20.08	19.90	20.56	21.04	19.92	20.60	20.42	21.09	21.56
	8H	19.49	20.09	20.00	20.60	21.08	20.08	20.68	20.59	21.19	21.68
	12H	19.54	20.07	20.04	20.56	21.12	20.22	20.75	20.73	21.24	21.80
12H	4H	19.05	19.78	19.53	20.26	20.73	19.49	20.22	19.97	20.70	21.17
	6H	19.42	20.02	19.93	20.53	21.02	19.93	20.53	20.44	21.04	21.53
	8H	19.54	20.07	20.05	20.57	21.13	20.12	20.66	20.63	21.15	21.71

END OF REPORT