

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: P1498481

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498481
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-2-120-2LO-STD-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

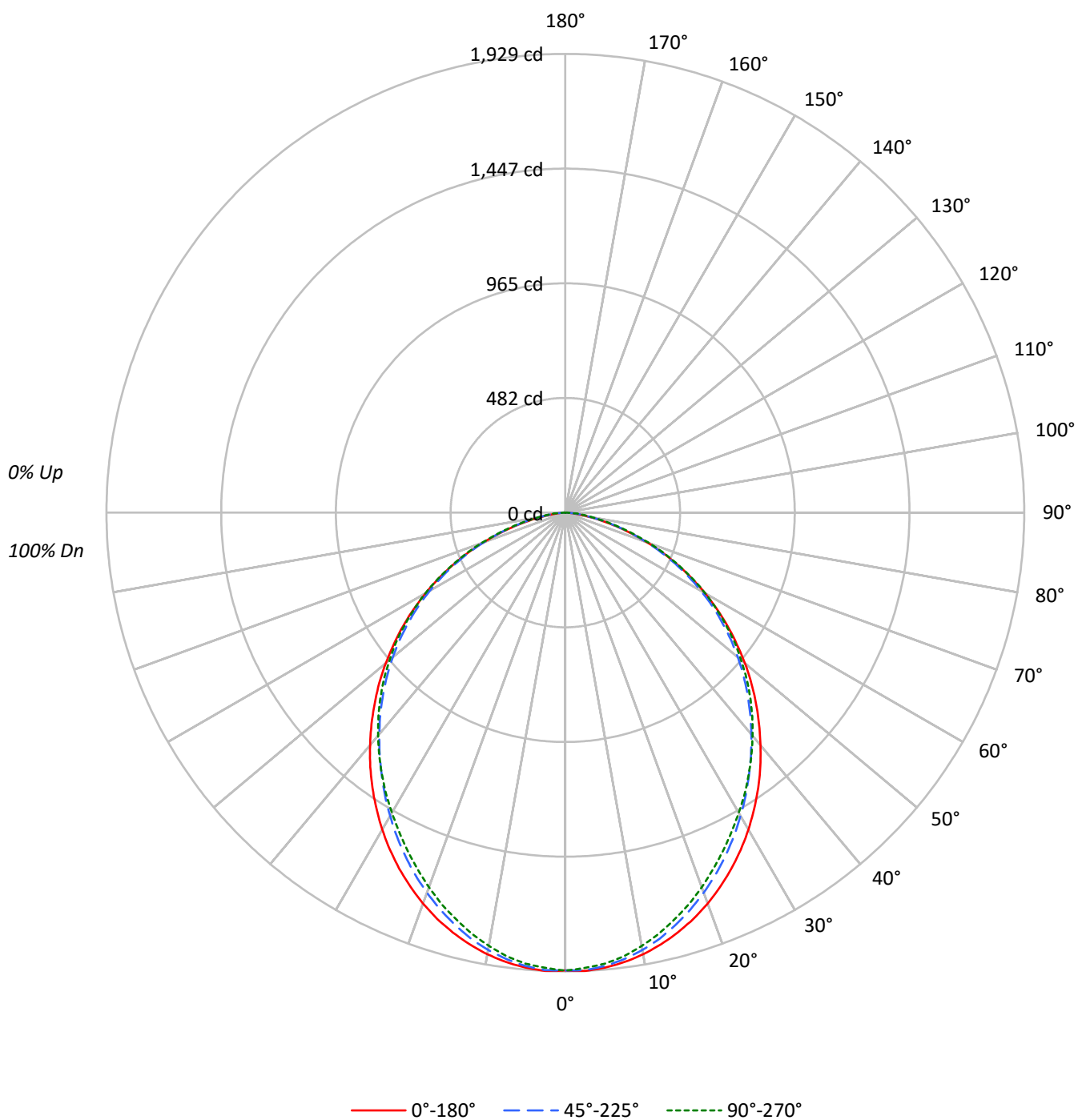
Lumens per Lamp: N/A
Luminaire Lumens: 4653.0 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 59.3
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°	5181	5181	5181
5°	5189	5170	5144
10°	5153	5103	5056
15°	5091	4998	4934
20°	5009	4870	4801
25°	4905	4729	4658
30°	4782	4577	4528
35°	4643	4421	4414
40°	4484	4274	4301
45°	4313	4124	4182
50°	4126	3963	4038
55°	3909	3776	3868
60°	3650	3546	3659
65°	3324	3249	3358
70°	2877	2865	2953
75°	2299	2373	2421
80°	1567	1723	1816
85°	821	1213	1590

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4313 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.9	3.9
10°-20°	505.4	10.9
20°-30°	736.7	15.8
30°-40°	851.7	18.3
40°-50°	847.6	18.2
50°-60°	728.5	15.7
60°-70°	510.9	11.0
70°-80°	242.6	5.2
80°-90°	48.6	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°	1423.1	30.6
0°-40°	2274.8	48.9
0°-60°	3850.9	82.8
0°-90°	4653.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4653.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1926	1926	1926	1926	1926	
5°	1921	1915	1914	1901	1904	182
15°	1827	1814	1794	1771	1771	515
25°	1652	1629	1593	1568	1569	760
35°	1413	1383	1346	1338	1344	883
45°	1133	1105	1084	1091	1099	874
55°	833	810	805	818	824	744
65°	522	508	510	521	527	516
75°	221	216	228	232	233	238
85°	27	31	39	48	52	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1925.5	1925.5	1925.5	1925.5	1925.5
2.5°	1929.2	1924.0	1925.5	1915.7	1916.0
5°	1920.9	1914.7	1914.0	1901.3	1904.2
7.5°	1906.2	1898.6	1894.3	1879.5	1881.9
10°	1885.8	1876.0	1867.6	1849.1	1850.2
12.5°	1859.7	1848.1	1834.4	1812.8	1814.3
15°	1827.3	1813.8	1794.2	1770.6	1771.1
17.5°	1791.5	1776.1	1749.6	1724.4	1726.8
20°	1749.2	1731.7	1700.6	1674.4	1676.5
22.5°	1702.3	1682.1	1649.1	1622.8	1623.1
25°	1652.1	1629.3	1592.8	1568.1	1568.7
27.5°	1597.6	1572.2	1534.2	1511.2	1513.1
30°	1539.1	1512.0	1473.1	1454.2	1457.3
32.5°	1477.4	1449.3	1410.8	1397.2	1402.6
35°	1413.4	1383.4	1345.9	1337.7	1343.8
37.5°	1346.7	1317.1	1281.7	1278.7	1285.0
40°	1276.5	1247.8	1216.6	1217.2	1224.3
42.5°	1205.6	1177.6	1150.8	1155.2	1162.8
45°	1133.2	1105.2	1083.6	1090.7	1099.0
47.5°	1061.0	1033.1	1016.3	1025.6	1033.1
50°	985.5	959.6	946.7	957.8	964.5
52.5°	908.6	884.5	876.3	888.8	898.1
55°	833.3	810.2	804.8	817.8	824.4
57.5°	755.6	736.0	732.9	745.3	752.3
60°	678.2	659.9	658.8	672.1	679.8
62.5°	599.9	583.4	585.0	597.8	603.9
65°	522.0	508.0	510.3	521.1	527.3
67.5°	444.8	432.2	437.3	449.4	452.6
70°	365.6	355.8	364.2	373.5	375.3
72.5°	292.1	283.6	294.1	300.9	301.3
75°	221.1	215.7	228.2	231.7	232.9
77.5°	156.4	155.8	165.3	168.9	170.6
80°	101.1	104.4	111.2	116.5	117.2
82.5°	57.3	61.2	68.2	78.0	81.8
85°	26.6	30.7	39.3	47.7	51.5
87.5°	8.9	12.1	16.6	18.1	17.2
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	16.64	18.23	17.01	18.54	18.86	16.71	18.30	17.08	18.61	18.93
	3H	18.12	19.54	18.50	19.87	20.23	18.24	19.67	18.62	20.00	20.36
	4H	18.55	19.89	18.95	20.24	20.61	18.71	20.05	19.11	20.39	20.77
	6H	18.76	20.00	19.17	20.37	20.76	18.97	20.20	19.38	20.57	20.96
	8H	18.79	19.97	19.22	20.36	20.76	19.03	20.21	19.46	20.60	21.00
	12H	18.79	19.92	19.22	20.31	20.73	19.08	20.21	19.51	20.59	21.02
4H	2H	17.18	18.52	17.58	18.87	19.25	17.24	18.58	17.64	18.93	19.30
	3H	18.84	19.95	19.25	20.35	20.75	18.96	20.07	19.37	20.47	20.87
	4H	19.36	20.36	19.79	20.77	21.21	19.52	20.53	19.96	20.94	21.38
	6H	19.65	20.52	20.11	20.96	21.42	19.87	20.75	20.33	21.19	21.65
	8H	19.70	20.51	20.16	20.96	21.42	19.97	20.78	20.43	21.23	21.69
	12H	19.71	20.44	20.19	20.92	21.39	20.04	20.77	20.52	21.25	21.72
8H	4H	19.55	20.37	20.02	20.81	21.28	19.71	20.52	20.17	20.97	21.43
	6H	19.91	20.58	20.40	21.07	21.55	20.13	20.80	20.62	21.29	21.77
	8H	19.99	20.59	20.50	21.10	21.58	20.26	20.87	20.78	21.37	21.86
	12H	20.03	20.56	20.54	21.05	21.61	20.38	20.92	20.89	21.41	21.97
12H	4H	19.56	20.29	20.04	20.77	21.24	19.71	20.44	20.19	20.91	21.38
	6H	19.92	20.52	20.43	21.03	21.52	20.13	20.73	20.64	21.24	21.73
	8H	20.03	20.56	20.54	21.05	21.62	20.30	20.84	20.81	21.33	21.89