

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: P1498244

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498244
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-2-120-1STD-HI-30-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

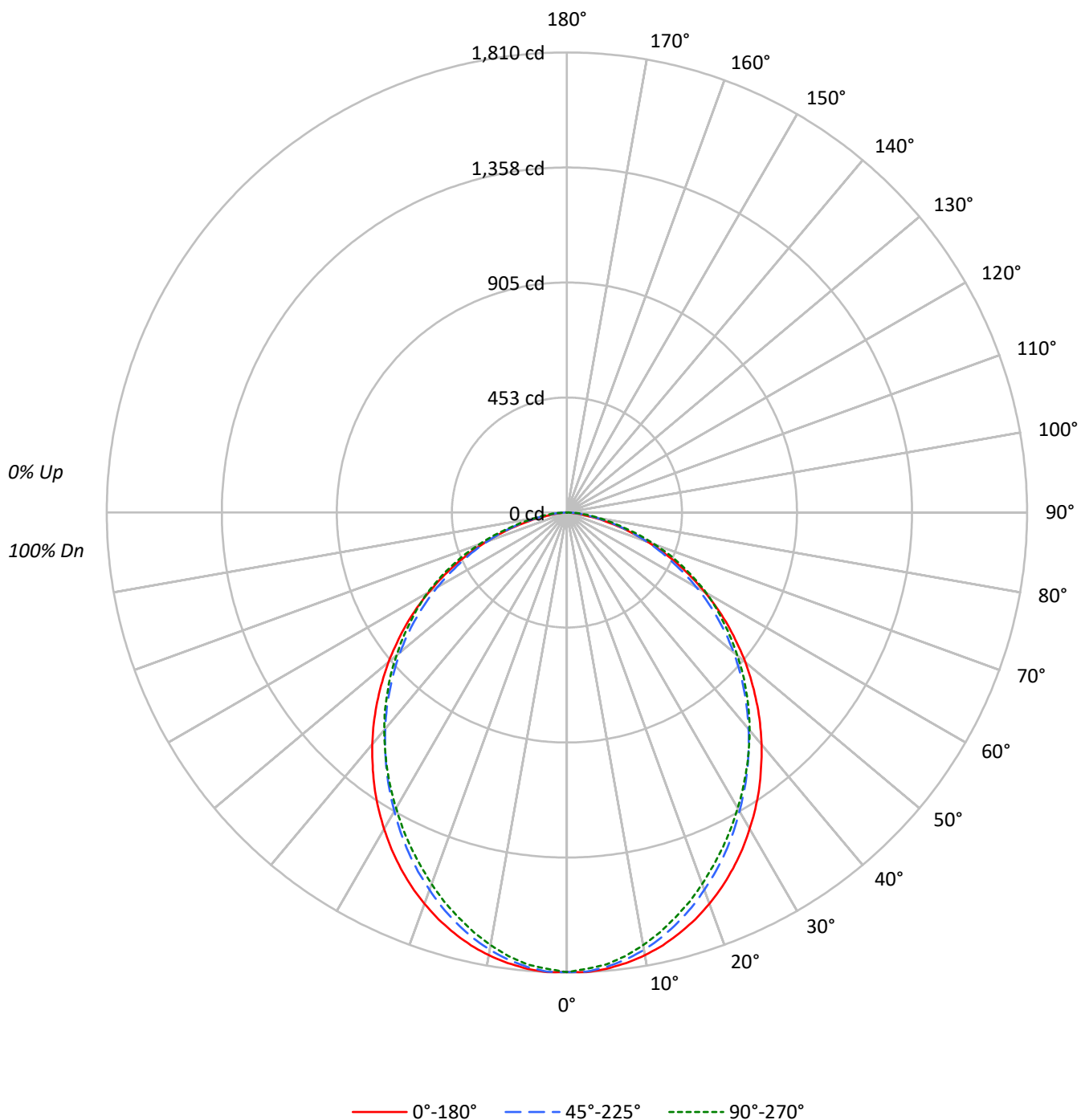
Lumens per Lamp: N/A
Luminaire Lumens: 4305.0 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 62.6
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	60	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	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4866	4866	4866
5°	4868	4848	4821
10°	4833	4775	4722
15°	4773	4662	4593
20°	4692	4525	4454
25°	4589	4379	4312
30°	4467	4217	4175
35°	4335	4064	4047
40°	4184	3905	3927
45°	4016	3748	3797
50°	3835	3582	3662
55°	3626	3391	3524
60°	3370	3172	3410
65°	3071	2897	3200
70°	2668	2621	2898
75°	2136	2263	2451
80°	1483	1795	2011
85°	831	1399	1849

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4016 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.6	3.9
10°-20°	472.0	11.0
20°-30°	684.0	15.9
30°-40°	785.4	18.2
40°-50°	775.8	18.0
50°-60°	663.3	15.4
60°-70°	469.6	10.9
70°-80°	232.8	5.4
80°-90°	52.5	1.2
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°	1325.6	30.8
0°-40°	2111.0	49.0
0°-60°	3550.1	82.5
0°-90°	4305.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4305.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1808	1808	1808	1808	1808	
5°	1802	1800	1795	1781	1785	171
15°	1713	1703	1673	1647	1649	483
25°	1546	1520	1475	1450	1452	711
35°	1320	1284	1237	1226	1232	825
45°	1055	1022	985	990	998	814
55°	773	742	723	738	751	690
65°	482	458	455	488	502	477
75°	205	195	218	234	236	222
85°	27	33	45	56	60	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1808.1	1808.1	1808.1	1808.1	1808.1
2.5°	1810.1	1811.8	1808.1	1794.0	1796.7
5°	1802.0	1800.5	1794.6	1780.7	1784.9
7.5°	1787.7	1785.0	1774.4	1757.7	1760.2
10°	1768.8	1763.4	1747.4	1726.3	1728.2
12.5°	1744.2	1736.6	1713.8	1689.6	1691.4
15°	1713.4	1702.8	1673.4	1647.2	1648.7
17.5°	1678.3	1665.6	1629.8	1601.2	1605.3
20°	1638.4	1621.5	1580.1	1552.3	1555.4
22.5°	1594.2	1573.2	1529.3	1502.0	1503.8
25°	1545.7	1520.2	1474.7	1450.0	1452.4
27.5°	1493.4	1465.4	1417.8	1394.7	1398.9
30°	1437.6	1407.2	1357.0	1338.9	1343.5
32.5°	1380.2	1347.7	1297.8	1283.7	1288.3
35°	1319.7	1284.4	1237.0	1225.9	1232.0
37.5°	1255.2	1220.9	1173.8	1169.7	1175.2
40°	1191.1	1155.6	1111.6	1111.1	1118.0
42.5°	1124.4	1089.9	1048.9	1051.0	1059.4
45°	1055.2	1021.6	984.8	990.0	997.7
47.5°	985.4	952.3	920.9	928.1	937.8
50°	916.1	884.2	855.7	865.9	874.7
52.5°	843.2	812.8	790.3	801.5	813.9
55°	772.9	742.0	722.7	737.6	751.2
57.5°	700.0	673.8	656.7	676.1	693.7
60°	626.1	600.5	589.4	616.1	633.6
62.5°	553.6	528.7	521.1	554.4	568.0
65°	482.3	457.9	454.9	488.0	502.5
67.5°	411.2	389.2	394.4	427.6	437.9
70°	339.1	319.3	333.1	362.2	368.3
72.5°	271.2	254.8	275.4	297.4	300.1
75°	205.4	194.8	217.7	233.8	235.7
77.5°	147.2	141.6	163.7	176.1	178.4
80°	95.7	97.7	115.8	125.9	129.8
82.5°	55.9	61.2	75.7	89.1	93.1
85°	26.9	33.3	45.3	55.5	59.9
87.5°	9.3	13.5	19.0	21.1	20.5
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	16.31	17.90	16.68	18.21	18.53	16.33	17.92	16.70	18.23	18.54
	3H	17.77	19.20	18.15	19.53	19.89	18.02	19.45	18.40	19.77	20.14
	4H	18.21	19.55	18.61	19.90	20.27	18.56	19.90	18.96	20.25	20.63
	6H	18.43	19.67	18.85	20.04	20.43	18.90	20.14	19.32	20.51	20.90
	8H	18.47	19.65	18.90	20.04	20.44	19.01	20.19	19.44	20.58	20.98
	12H	18.48	19.61	18.91	19.99	20.42	19.09	20.22	19.52	20.60	21.03
4H	2H	16.82	18.15	17.21	18.50	18.88	16.83	18.17	17.23	18.52	18.89
	3H	18.46	19.58	18.87	19.98	20.38	18.73	19.84	19.14	20.24	20.64
	4H	18.98	19.99	19.42	20.40	20.84	19.39	20.39	19.82	20.81	21.25
	6H	19.29	20.17	19.75	20.61	21.07	19.84	20.71	20.29	21.16	21.61
	8H	19.35	20.17	19.81	20.61	21.08	19.98	20.80	20.44	21.24	21.71
	12H	19.37	20.11	19.86	20.58	21.05	20.10	20.83	20.58	21.31	21.78
8H	4H	19.21	20.03	19.68	20.48	20.94	19.58	20.40	20.04	20.84	21.31
	6H	19.59	20.27	20.09	20.76	21.24	20.12	20.80	20.61	21.29	21.76
	8H	19.69	20.29	20.20	20.80	21.29	20.32	20.93	20.83	21.44	21.92
	12H	19.74	20.28	20.25	20.77	21.33	20.50	21.04	21.01	21.53	22.09
12H	4H	19.23	19.96	19.71	20.44	20.91	19.58	20.31	20.06	20.79	21.26
	6H	19.62	20.23	20.13	20.74	21.22	20.13	20.74	20.64	21.24	21.73
	8H	19.75	20.29	20.26	20.78	21.34	20.38	20.91	20.89	21.40	21.97