

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: P1498793

Luminaire Tested: MAE-G-2-120-3STD-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3STD-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

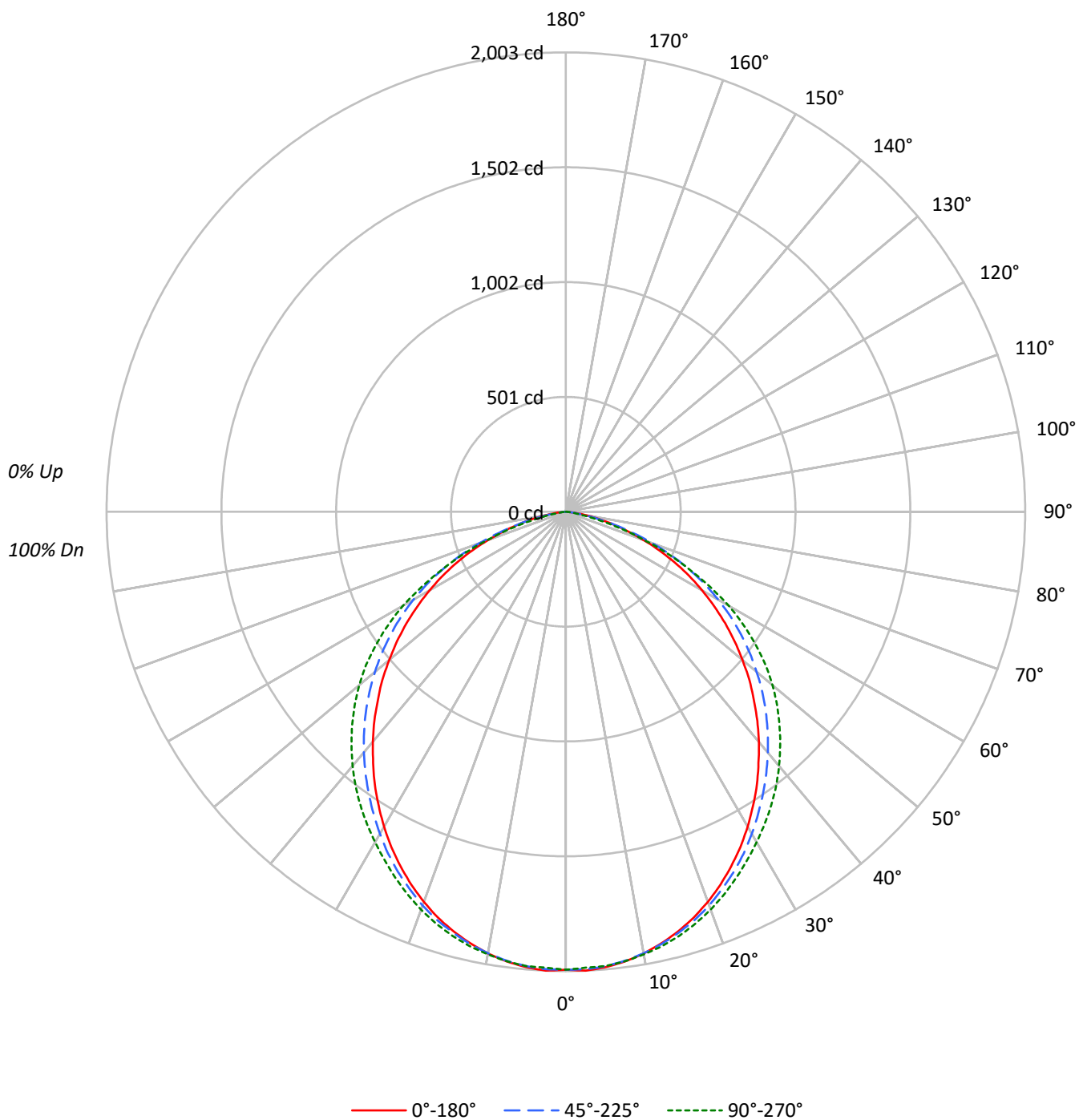
Lumens per Lamp: N/A
Luminaire Lumens: 5060.0 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 52.3
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

TEST NUMBER: P1498793

CATALOG NUMBER: MAE-G-2-120-3STD-30-90-WDDCPH

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	102	98	107	103	100	96	99	96	93		95	93	91		92
2	100	93	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		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
5	78	65	56	50	76	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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	36	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5372	5372	5372
5°	5384	5373	5370
10°	5344	5342	5354
15°	5276	5293	5332
20°	5184	5232	5286
25°	5064	5145	5226
30°	4927	5039	5171
35°	4772	4924	5131
40°	4599	4813	5080
45°	4411	4694	5015
50°	4207	4549	4926
55°	3980	4373	4736
60°	3694	4131	4420
65°	3336	3768	3785
70°	2847	3164	2942
75°	2236	2308	1810
80°	1460	1187	700
85°	698	469	371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5015 cd/sqm

TEST NUMBER: P1498793

CATALOG NUMBER: MAE-G-2-120-3STD-30-90-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.6	3.7
10°-20°	535.4	10.6
20°-30°	796.3	15.7
30°-40°	938.3	18.5
40°-50°	951.4	18.8
50°-60°	829.0	16.4
60°-70°	566.9	11.2
70°-80°	227.7	4.5
80°-90°	26.4	0.5
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°	1520.2	30.0
0°-40°	2458.6	48.6
0°-60°	4238.9	83.8
0°-90°	5060.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5060.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1996	1996	1996	1996	1996	
5°	1993	1981	1989	1987	1988	189
15°	1894	1886	1900	1908	1914	534
25°	1706	1706	1733	1745	1760	785
35°	1453	1459	1499	1536	1562	907
45°	1159	1175	1233	1289	1318	895
55°	848	866	932	991	1010	757
65°	524	548	592	596	594	518
75°	215	230	222	191	174	231
85°	23	20	15	13	12	35
90°	0	0	0	0	0	

TEST NUMBER: P1498793

CATALOG NUMBER: MAE-G-2-120-3STD-30-90-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1996.4	1996.4	1996.4	1996.4	1996.4
2.5°	2002.9	1989.5	1996.4	1995.0	1989.9
5°	1993.2	1981.1	1989.0	1986.7	1988.1
7.5°	1977.5	1966.4	1974.7	1974.3	1976.5
10°	1955.8	1944.7	1954.9	1956.8	1959.5
12.5°	1927.2	1918.0	1930.4	1934.1	1939.6
15°	1893.9	1885.6	1899.9	1907.8	1913.8
17.5°	1855.1	1848.2	1866.7	1874.1	1882.4
20°	1810.3	1805.3	1827.0	1833.9	1846.0
22.5°	1760.6	1757.8	1780.3	1791.0	1804.8
25°	1705.6	1706.1	1732.8	1745.4	1760.0
27.5°	1647.9	1648.8	1679.3	1696.8	1712.5
30°	1585.6	1588.3	1621.6	1643.3	1664.0
32.5°	1519.6	1525.1	1561.1	1590.7	1613.7
35°	1452.6	1459.1	1498.9	1535.7	1562.0
37.5°	1380.2	1390.8	1435.6	1479.5	1506.6
40°	1309.1	1319.7	1370.0	1418.5	1446.2
42.5°	1235.7	1249.1	1302.7	1356.6	1383.4
45°	1159.1	1174.7	1233.4	1288.8	1317.9
47.5°	1085.7	1099.5	1161.4	1219.1	1249.1
50°	1004.9	1022.4	1086.6	1147.1	1176.7
52.5°	927.8	943.9	1010.0	1071.9	1098.6
55°	848.4	866.4	932.0	990.6	1009.5
57.5°	767.1	788.9	852.1	901.1	919.0
60°	686.4	708.1	767.6	807.8	821.2
62.5°	606.0	629.2	681.3	708.1	708.1
65°	523.9	547.5	591.7	596.3	594.5
67.5°	441.8	465.3	499.0	490.6	485.1
70°	361.9	382.2	402.1	386.8	373.9
72.5°	284.3	303.7	307.0	284.9	268.6
75°	215.1	229.5	222.0	190.7	174.1
77.5°	150.0	158.3	142.6	110.8	97.4
80°	94.2	97.8	76.6	54.0	45.2
82.5°	50.8	51.2	33.3	27.2	25.4
85°	22.6	20.3	15.2	13.4	12.0
87.5°	7.9	6.9	5.5	5.1	4.2
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	16.77	18.35	17.13	18.67	18.98	17.75	19.33	18.12	19.65	19.96
	3H	18.18	19.60	18.55	19.93	20.29	18.95	20.38	19.33	20.70	21.06
	4H	18.57	19.91	18.97	20.25	20.63	19.17	20.51	19.57	20.85	21.23
	6H	18.75	19.98	19.16	20.34	20.74	19.19	20.42	19.60	20.79	21.18
	8H	18.76	19.93	19.19	20.32	20.72	19.17	20.34	19.59	20.73	21.13
	12H	18.75	19.88	19.18	20.26	20.69	19.14	20.26	19.57	20.65	21.08
4H	2H	17.44	18.77	17.84	19.12	19.50	18.23	19.56	18.63	19.91	20.29
	3H	19.01	20.11	19.42	20.51	20.91	19.60	20.70	20.01	21.10	21.50
	4H	19.48	20.48	19.92	20.89	21.33	19.87	20.86	20.30	21.28	21.72
	6H	19.72	20.59	20.18	21.03	21.49	19.92	20.78	20.38	21.23	21.68
	8H	19.75	20.55	20.21	20.99	21.46	19.90	20.70	20.36	21.15	21.61
	12H	19.75	20.47	20.23	20.94	21.41	19.88	20.60	20.36	21.07	21.54
8H	4H	19.63	20.43	20.09	20.88	21.34	19.99	20.79	20.45	21.24	21.70
	6H	19.90	20.57	20.40	21.06	21.53	20.05	20.71	20.54	21.20	21.68
	8H	19.94	20.54	20.46	21.04	21.53	20.03	20.62	20.54	21.13	21.61
	12H	19.96	20.48	20.47	20.97	21.54	20.01	20.53	20.52	21.03	21.59
12H	4H	19.61	20.33	20.09	20.81	21.28	19.98	20.70	20.46	21.17	21.64
	6H	19.87	20.47	20.39	20.98	21.46	20.03	20.62	20.54	21.13	21.62
	8H	19.94	20.46	20.45	20.95	21.52	20.03	20.55	20.54	21.04	21.60