

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: P1498205

Luminaire Tested: MAE-G-2-120-1LO-STD-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498205
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-2-120-1LO-STD-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

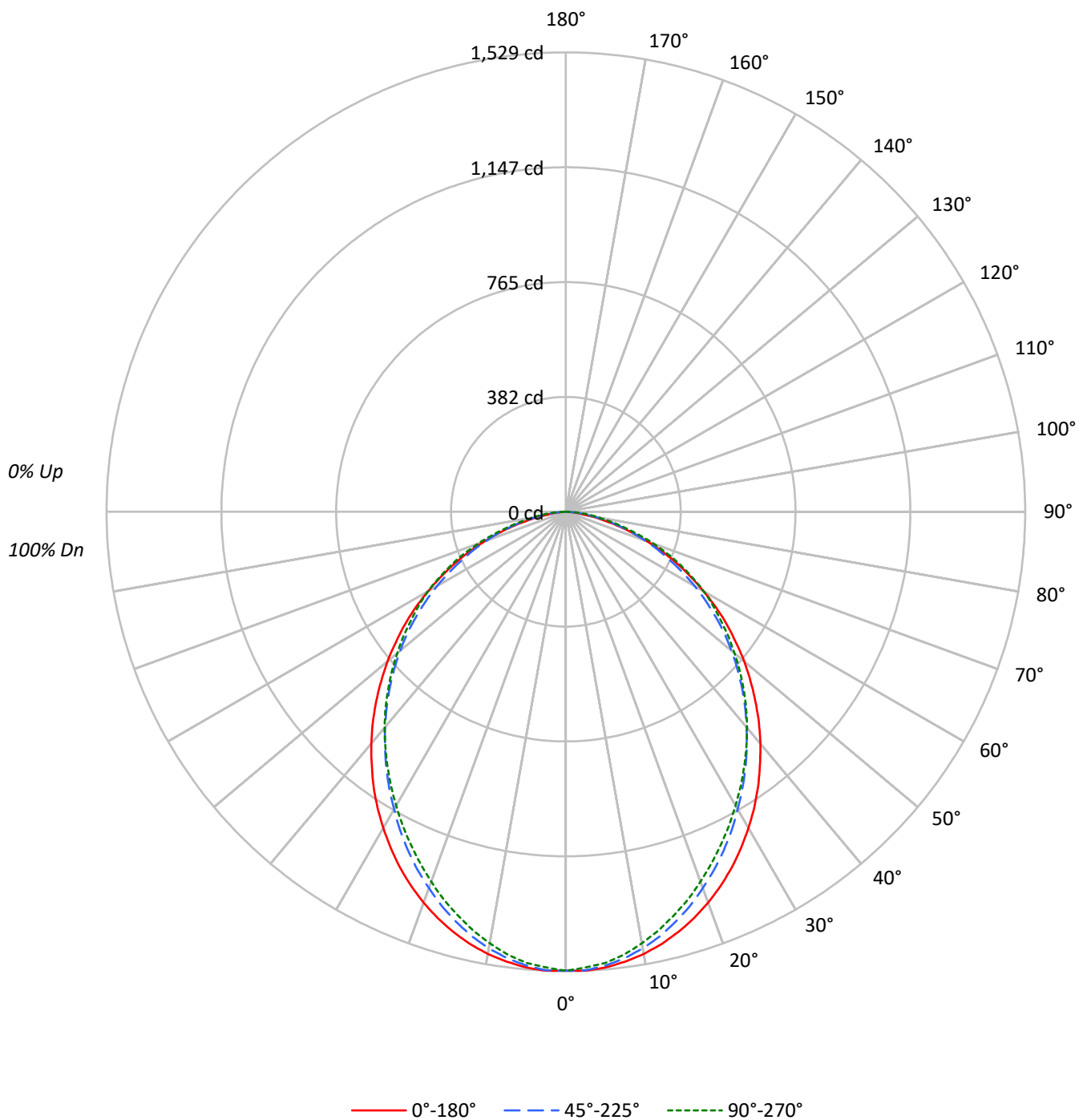
Lumens per Lamp: N/A
Luminaire Lumens: 3630.0 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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: P1498205

CATALOG NUMBER: MAE-G-2-120-1LO-STD-40-90-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	109	105	101	97	107	103	99	96	98	95	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	64		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°	4110	4110	4110
5°	4112	4095	4072
10°	4083	4032	3986
15°	4033	3935	3873
20°	3965	3817	3752
25°	3879	3692	3629
30°	3777	3553	3510
35°	3666	3423	3399
40°	3539	3288	3296
45°	3397	3154	3183
50°	3245	3013	3067
55°	3069	2852	2950
60°	2854	2667	2856
65°	2602	2437	2689
70°	2262	2212	2449
75°	1811	1920	2094
80°	1260	1536	1739
85°	710	1207	1606

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3397 cd/sqm

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CATALOG NUMBER: MAE-G-2-120-1LO-STD-40-90-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.3	3.9
10°-20°	398.3	11.0
20°-30°	576.8	15.9
30°-40°	661.8	18.2
40°-50°	653.2	18.0
50°-60°	558.1	15.4
60°-70°	395.7	10.9
70°-80°	197.7	5.4
80°-90°	45.2	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°	1118.4	30.8
0°-40°	1780.2	49.0
0°-60°	2991.5	82.4
0°-90°	3630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3630.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1527	1527	1527	1527	1527	
5°	1522	1521	1516	1504	1507	144
15°	1448	1438	1412	1389	1390	408
25°	1306	1284	1243	1221	1222	601
35°	1116	1085	1042	1030	1035	697
45°	893	863	829	831	836	688
55°	654	627	608	618	629	584
65°	409	387	383	410	422	404
75°	174	165	185	199	201	188
85°	23	28	39	48	52	32
90°	0	0	0	0	0	

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CATALOG NUMBER: MAE-G-2-120-1LO-STD-40-90-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1527.4	1527.4	1527.4	1527.4	1527.4
2.5°	1529.1	1530.5	1527.4	1515.3	1517.9
5°	1522.3	1521.2	1516.0	1503.9	1507.4
7.5°	1510.3	1507.9	1498.6	1484.0	1486.2
10°	1494.4	1489.7	1475.5	1457.1	1458.6
12.5°	1473.6	1466.9	1447.0	1425.4	1426.9
15°	1447.7	1438.3	1412.5	1389.1	1390.2
17.5°	1418.1	1406.8	1375.2	1349.7	1352.9
20°	1384.5	1369.5	1332.9	1308.0	1310.2
22.5°	1347.4	1328.8	1289.9	1265.1	1266.2
25°	1306.4	1284.0	1243.3	1220.8	1222.1
27.5°	1262.4	1237.6	1195.0	1173.7	1176.7
30°	1215.4	1188.5	1143.6	1126.4	1129.5
32.5°	1166.9	1138.1	1093.5	1079.5	1082.7
35°	1115.9	1084.6	1041.9	1030.5	1034.8
37.5°	1061.4	1031.0	988.5	982.9	986.7
40°	1007.4	975.9	935.9	933.2	938.3
42.5°	951.0	920.3	882.9	882.4	888.5
45°	892.6	862.7	828.8	830.9	836.5
47.5°	833.6	804.2	774.8	778.7	786.0
50°	775.2	746.6	719.8	726.4	732.6
52.5°	713.4	686.4	664.7	672.1	681.5
55°	654.2	626.6	607.9	618.3	628.8
57.5°	592.6	569.0	552.3	566.7	580.7
60°	530.2	507.2	495.6	516.5	530.6
62.5°	468.9	446.5	438.4	465.1	476.4
65°	408.6	386.8	382.8	410.2	422.3
67.5°	348.5	328.8	332.1	360.2	368.9
70°	287.5	269.8	281.1	305.8	311.3
72.5°	230.0	215.4	232.9	252.2	254.8
75°	174.2	164.8	184.7	199.3	201.4
77.5°	125.0	120.0	139.5	150.9	153.4
80°	81.3	83.1	99.1	108.7	112.2
82.5°	47.6	52.2	65.1	77.0	80.7
85°	23.0	28.5	39.1	48.0	52.0
87.5°	7.9	11.6	16.4	18.3	17.8
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	15.74	17.32	16.10	17.63	17.95	15.70	17.28	16.06	17.59	17.91
	3H	17.20	18.62	17.58	18.95	19.31	17.40	18.83	17.78	19.16	19.52
	4H	17.64	18.98	18.03	19.32	19.70	17.96	19.30	18.36	19.65	20.03
	6H	17.86	19.10	18.27	19.47	19.86	18.32	19.56	18.73	19.92	20.32
	8H	17.90	19.08	18.33	19.47	19.87	18.43	19.61	18.86	20.00	20.40
	12H	17.91	19.04	18.34	19.42	19.85	18.51	19.64	18.94	20.03	20.45
4H	2H	16.23	17.57	16.63	17.92	18.30	16.20	17.54	16.60	17.89	18.26
	3H	17.88	19.00	18.29	19.40	19.80	18.12	19.23	18.53	19.63	20.03
	4H	18.41	19.41	18.84	19.83	20.26	18.79	19.80	19.23	20.21	20.65
	6H	18.72	19.59	19.17	20.04	20.49	19.26	20.14	19.72	20.58	21.04
	8H	18.78	19.60	19.24	20.04	20.51	19.42	20.24	19.88	20.68	21.14
	12H	18.80	19.54	19.28	20.01	20.48	19.54	20.27	20.02	20.75	21.22
8H	4H	18.64	19.46	19.10	19.90	20.37	18.99	19.81	19.45	20.25	20.72
	6H	19.02	19.70	19.52	20.19	20.67	19.55	20.23	20.05	20.72	21.20
	8H	19.12	19.73	19.63	20.23	20.72	19.77	20.37	20.28	20.88	21.37
	12H	19.18	19.71	19.68	20.20	20.77	19.96	20.49	20.46	20.98	21.55
12H	4H	18.66	19.39	19.14	19.87	20.34	18.99	19.72	19.47	20.20	20.67
	6H	19.05	19.66	19.56	20.17	20.66	19.56	20.17	20.07	20.68	21.17
	8H	19.19	19.73	19.70	20.22	20.78	19.82	20.36	20.33	20.85	21.41

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

7 of 7