

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: P1498703

Luminaire Tested: MAE-G-2-120-3LO-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498703
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-2-120-3LO-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

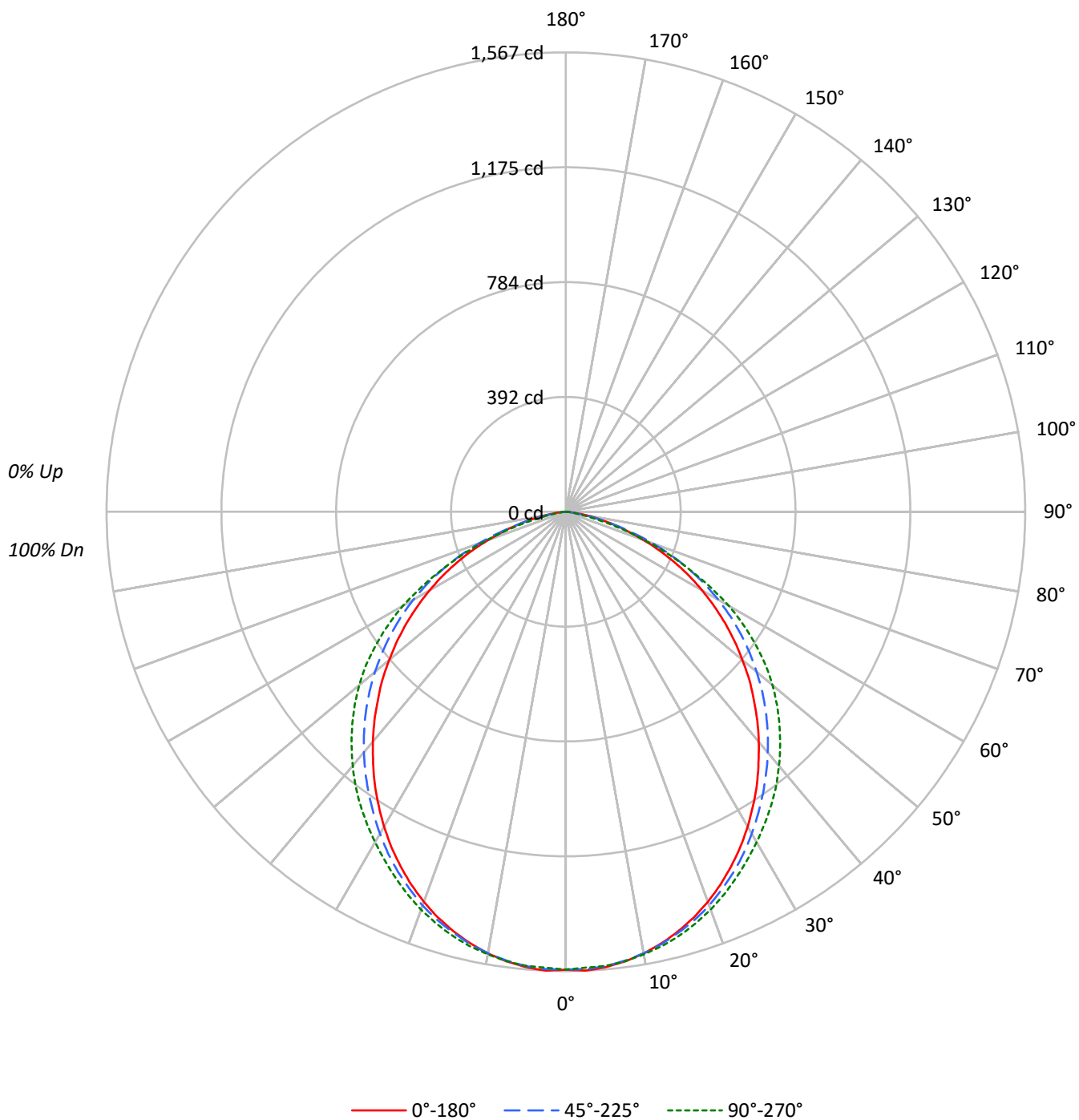
Lumens per Lamp: N/A
Luminaire Lumens: 3958.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 36.7
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: P1498703

CATALOG NUMBER: MAE-G-2-120-3LO-35-90-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°	4202	4202	4202
5°	4212	4203	4201
10°	4180	4179	4188
15°	4127	4140	4171
20°	4055	4092	4135
25°	3961	4024	4088
30°	3854	3941	4044
35°	3733	3851	4014
40°	3597	3764	3974
45°	3451	3672	3923
50°	3291	3558	3853
55°	3114	3420	3705
60°	2890	3232	3457
65°	2609	2947	2961
70°	2227	2474	2301
75°	1749	1806	1415
80°	1142	928	549
85°	546	367	290

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3923 cd/sqm

TEST NUMBER: P1498703

CATALOG NUMBER: MAE-G-2-120-3LO-35-90-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.5	3.7
10°-20°	418.8	10.6
20°-30°	622.8	15.7
30°-40°	734.0	18.5
40°-50°	744.2	18.8
50°-60°	648.4	16.4
60°-70°	443.5	11.2
70°-80°	178.1	4.5
80°-90°	20.7	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°	1189.2	30.0
0°-40°	1923.1	48.6
0°-60°	3315.7	83.8
0°-90°	3958.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3958.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1562	1562	1562	1562	1562	
5°	1559	1550	1556	1554	1555	148
15°	1481	1475	1486	1492	1497	417
25°	1334	1334	1355	1365	1377	614
35°	1136	1141	1172	1201	1222	710
45°	907	919	965	1008	1031	700
55°	664	678	729	775	790	592
65°	410	428	463	466	465	405
75°	168	180	174	149	136	181
85°	18	16	12	10	9	27
90°	0	0	0	0	0	

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CATALOG NUMBER: MAE-G-2-120-3LO-35-90-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1561.6	1561.6	1561.6	1561.6	1561.6
2.5°	1566.7	1556.2	1561.6	1560.5	1556.5
5°	1559.1	1549.7	1555.8	1554.1	1555.1
7.5°	1546.8	1538.2	1544.6	1544.3	1546.1
10°	1529.9	1521.2	1529.2	1530.6	1532.8
12.5°	1507.5	1500.3	1510.0	1512.9	1517.2
15°	1481.4	1475.0	1486.1	1492.3	1497.0
17.5°	1451.1	1445.7	1460.1	1466.0	1472.4
20°	1416.1	1412.2	1429.1	1434.5	1443.9
22.5°	1377.1	1375.0	1392.6	1400.9	1411.8
25°	1334.1	1334.5	1355.4	1365.2	1376.7
27.5°	1289.0	1289.7	1313.6	1327.3	1339.5
30°	1240.3	1242.4	1268.4	1285.4	1301.6
32.5°	1188.6	1192.9	1221.1	1244.3	1262.3
35°	1136.3	1141.3	1172.4	1201.2	1221.8
37.5°	1079.6	1087.9	1122.9	1157.3	1178.5
40°	1024.0	1032.3	1071.6	1109.5	1131.2
42.5°	966.6	977.1	1019.0	1061.2	1082.1
45°	906.7	918.9	964.8	1008.1	1030.9
47.5°	849.2	860.1	908.4	953.6	977.1
50°	786.0	799.7	849.9	897.3	920.4
52.5°	725.8	738.4	790.0	838.4	859.3
55°	663.7	677.7	729.0	774.8	789.7
57.5°	600.1	617.1	666.5	704.8	718.9
60°	536.9	553.9	600.5	631.9	642.4
62.5°	474.0	492.2	532.9	553.9	553.9
65°	409.8	428.2	462.9	466.5	465.0
67.5°	345.6	364.0	390.3	383.8	379.5
70°	283.1	299.0	314.5	302.5	292.5
72.5°	222.4	237.6	240.1	222.8	210.1
75°	168.2	179.5	173.7	149.2	136.1
77.5°	117.3	123.9	111.6	86.7	76.2
80°	73.7	76.5	59.9	42.2	35.4
82.5°	39.7	40.1	26.0	21.3	19.9
85°	17.7	15.9	11.9	10.5	9.4
87.5°	6.1	5.4	4.3	4.0	3.3
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	15.91	17.50	16.28	17.81	18.13	16.90	18.48	17.26	18.79	19.11
	3H	17.32	18.75	17.70	19.07	19.43	18.10	19.52	18.48	19.85	20.21
	4H	17.72	19.05	18.12	19.40	19.78	18.32	19.65	18.72	20.00	20.38
	6H	17.89	19.13	18.30	19.49	19.88	18.34	19.57	18.75	19.93	20.32
	8H	17.91	19.08	18.33	19.47	19.87	18.31	19.49	18.74	19.88	20.28
	12H	17.90	19.02	18.33	19.40	19.83	18.29	19.41	18.72	19.79	20.22
4H	2H	16.59	17.92	16.98	18.27	18.64	17.38	18.71	17.77	19.06	19.43
	3H	18.15	19.26	18.56	19.66	20.06	18.74	19.85	19.15	20.25	20.65
	4H	18.63	19.62	19.06	20.04	20.48	19.02	20.01	19.45	20.43	20.86
	6H	18.87	19.73	19.33	20.17	20.63	19.07	19.93	19.52	20.37	20.83
	8H	18.89	19.70	19.36	20.14	20.61	19.04	19.85	19.51	20.29	20.76
	12H	18.89	19.61	19.38	20.09	20.56	19.02	19.74	19.51	20.22	20.69
8H	4H	18.78	19.58	19.24	20.02	20.49	19.14	19.94	19.60	20.38	20.85
	6H	19.05	19.71	19.55	20.20	20.68	19.20	19.86	19.69	20.35	20.82
	8H	19.09	19.68	19.60	20.19	20.68	19.17	19.77	19.69	20.27	20.76
	12H	19.11	19.63	19.61	20.12	20.68	19.16	19.68	19.67	20.17	20.74
12H	4H	18.76	19.48	19.24	19.95	20.42	19.12	19.84	19.61	20.32	20.79
	6H	19.02	19.61	19.53	20.12	20.61	19.17	19.77	19.69	20.27	20.76
	8H	19.09	19.61	19.60	20.10	20.66	19.17	19.70	19.68	20.19	20.75