

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: P1498994

Luminaire Tested: MAE-G-4-120-1LO-35-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498994
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-4-120-1LO-35-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

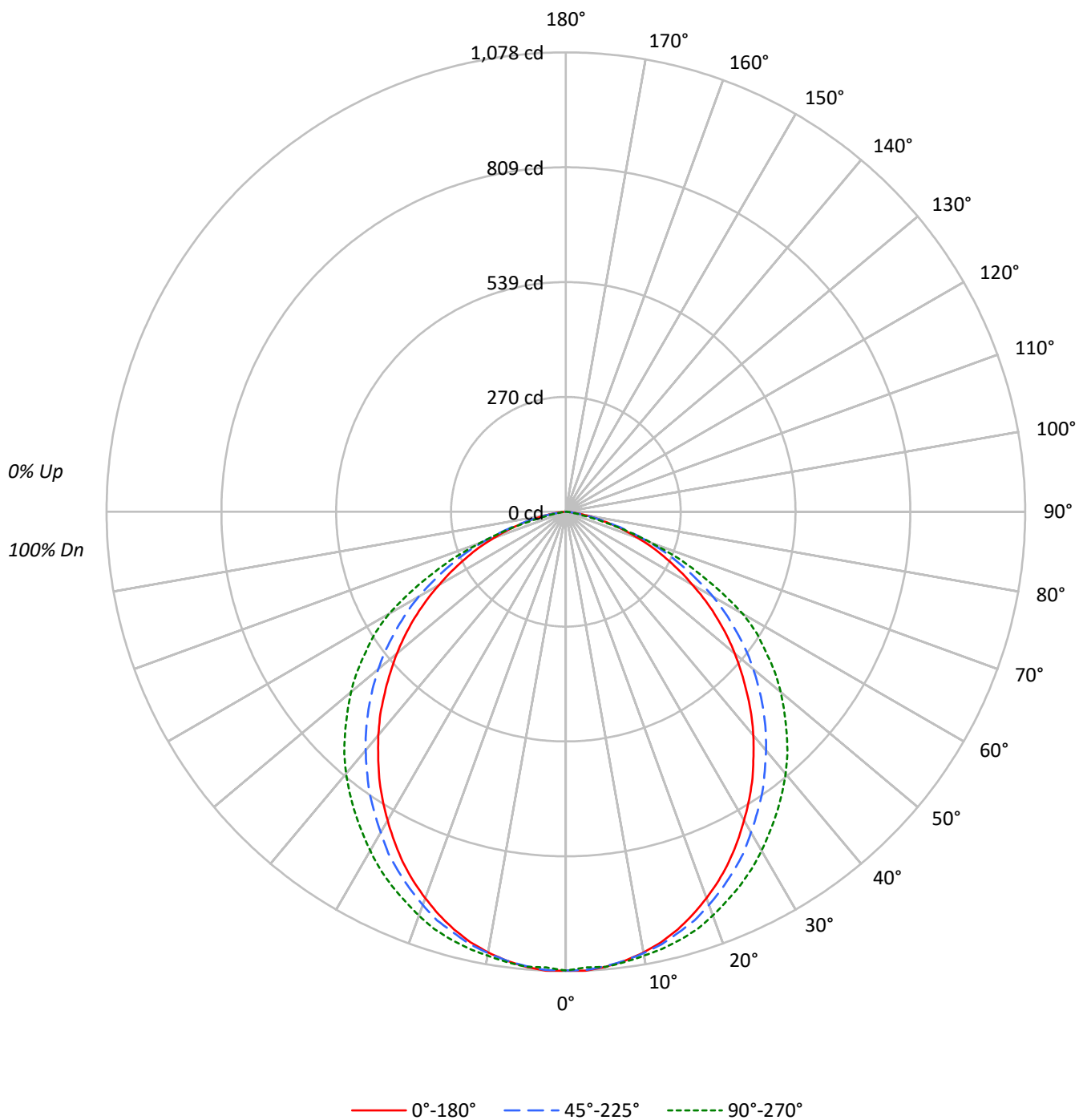
Lumens per Lamp: N/A
Luminaire Lumens: 2710.0 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	92	82	74	68	90	80	73	67	77	71	66		75	70	65		72
4	84	73	65	58	82	72	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		55	48	43		53
7	67	54	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	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1448	1448	1448
5°	1448	1445	1448
10°	1435	1437	1445
15°	1413	1424	1448
20°	1382	1406	1444
25°	1345	1382	1437
30°	1299	1350	1427
35°	1254	1320	1417
40°	1202	1284	1409
45°	1143	1247	1394
50°	1083	1203	1378
55°	1014	1145	1344
60°	925	1075	1292
65°	828	961	1110
70°	707	810	847
75°	547	588	475
80°	360	312	168
85°	191	144	96

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1394 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	3.8
10°-20°	288.9	10.7
20°-30°	429.5	15.9
30°-40°	505.0	18.6
40°-50°	509.7	18.8
50°-60°	442.6	16.3
60°-70°	301.2	11.1
70°-80°	117.3	4.3
80°-90°	14.0	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°	820.1	30.3
0°-40°	1325.1	48.9
0°-60°	2277.4	84.0
0°-90°	2710.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2710.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1076	1076	1076	1076	1076	
5°	1072	1070	1070	1070	1072	102
15°	1014	1016	1022	1033	1039	286
25°	906	911	931	954	968	417
35°	764	773	804	841	863	477
45°	601	616	655	706	733	464
55°	432	446	488	544	573	386
65°	260	273	302	334	348	258
75°	105	112	113	102	91	115
85°	12	12	9	8	6	18
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1076.4	1076.4	1076.4	1076.4	1076.4
2.5°	1078.0	1078.0	1076.4	1071.8	1070.2
5°	1071.8	1070.2	1070.2	1070.2	1071.8
7.5°	1062.5	1062.5	1062.5	1064.0	1065.6
10°	1050.1	1050.1	1051.7	1054.7	1057.8
12.5°	1034.6	1036.2	1039.3	1045.5	1050.1
15°	1014.5	1016.0	1022.2	1033.1	1039.3
17.5°	991.2	995.9	1005.2	1017.6	1026.9
20°	964.9	969.6	982.0	997.4	1008.3
22.5°	937.0	941.7	957.2	975.8	988.1
25°	906.1	910.7	930.8	954.1	968.0
27.5°	872.0	878.2	903.0	927.7	944.8
30°	836.4	844.1	868.9	899.9	918.5
32.5°	800.7	810.0	836.4	872.0	890.6
35°	763.6	772.9	803.8	841.0	862.7
37.5°	723.3	734.1	766.7	811.6	833.3
40°	684.6	695.4	731.0	779.1	802.3
42.5°	644.3	656.7	693.9	743.4	769.8
45°	600.9	616.4	655.2	706.3	732.6
47.5°	559.1	573.1	614.9	667.5	695.4
50°	517.3	532.8	574.6	628.8	658.3
52.5°	475.5	489.4	532.8	587.0	618.0
55°	432.1	446.1	487.9	543.6	573.1
57.5°	388.8	405.8	444.5	498.7	531.2
60°	343.8	359.3	399.6	453.8	480.1
62.5°	302.0	316.0	350.0	401.1	413.5
65°	260.2	272.6	302.0	334.5	348.5
67.5°	221.5	230.8	257.1	278.8	285.0
70°	179.7	189.0	206.0	218.4	215.3
72.5°	142.5	148.7	159.5	158.0	150.2
75°	105.3	111.5	113.1	102.2	91.4
77.5°	74.3	77.4	72.8	57.3	46.5
80°	46.5	48.0	40.3	24.8	21.7
82.5°	26.3	26.3	18.6	15.5	12.4
85°	12.4	12.4	9.3	7.7	6.2
87.5°	4.6	4.6	3.1	3.1	3.1
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	11.89	13.47	12.26	13.78	14.10	13.47	15.05	13.84	15.36	15.68
	3H	13.23	14.64	13.60	14.97	15.33	14.74	16.16	15.12	16.48	16.84
	4H	13.59	14.92	13.99	15.27	15.65	14.93	16.26	15.33	16.61	16.99
	6H	13.76	14.99	14.17	15.35	15.74	14.93	16.16	15.34	16.53	16.92
	8H	13.77	14.94	14.20	15.33	15.73	14.91	16.08	15.33	16.47	16.87
	12H	13.77	14.89	14.20	15.27	15.70	14.88	16.00	15.31	16.38	16.81
4H	2H	12.56	13.89	12.95	14.23	14.61	13.85	15.18	14.25	15.52	15.90
	3H	14.05	15.15	14.46	15.55	15.95	15.29	16.39	15.70	16.79	17.19
	4H	14.50	15.49	14.93	15.90	16.34	15.54	16.53	15.97	16.94	17.38
	6H	14.72	15.58	15.18	16.02	16.48	15.57	16.42	16.02	16.87	17.32
	8H	14.75	15.55	15.21	15.99	16.46	15.54	16.34	16.00	16.78	17.25
	12H	14.75	15.46	15.23	15.94	16.41	15.52	16.23	16.00	16.71	17.18
8H	4H	14.65	15.45	15.12	15.90	16.36	15.62	16.42	16.08	16.87	17.33
	6H	14.91	15.57	15.41	16.06	16.54	15.66	16.31	16.15	16.80	17.28
	8H	14.95	15.54	15.47	16.05	16.54	15.63	16.22	16.14	16.73	17.22
	12H	14.98	15.49	15.48	15.99	16.55	15.61	16.13	16.12	16.63	17.19
12H	4H	14.64	15.35	15.12	15.83	16.30	15.61	16.32	16.09	16.80	17.27
	6H	14.88	15.47	15.40	15.98	16.47	15.63	16.22	16.14	16.73	17.22
	8H	14.95	15.47	15.46	15.96	16.53	15.63	16.15	16.14	16.64	17.20