

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: P1498214

Luminaire Tested: MAE-G-2-120-1LO-STD-50-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498214
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-50-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

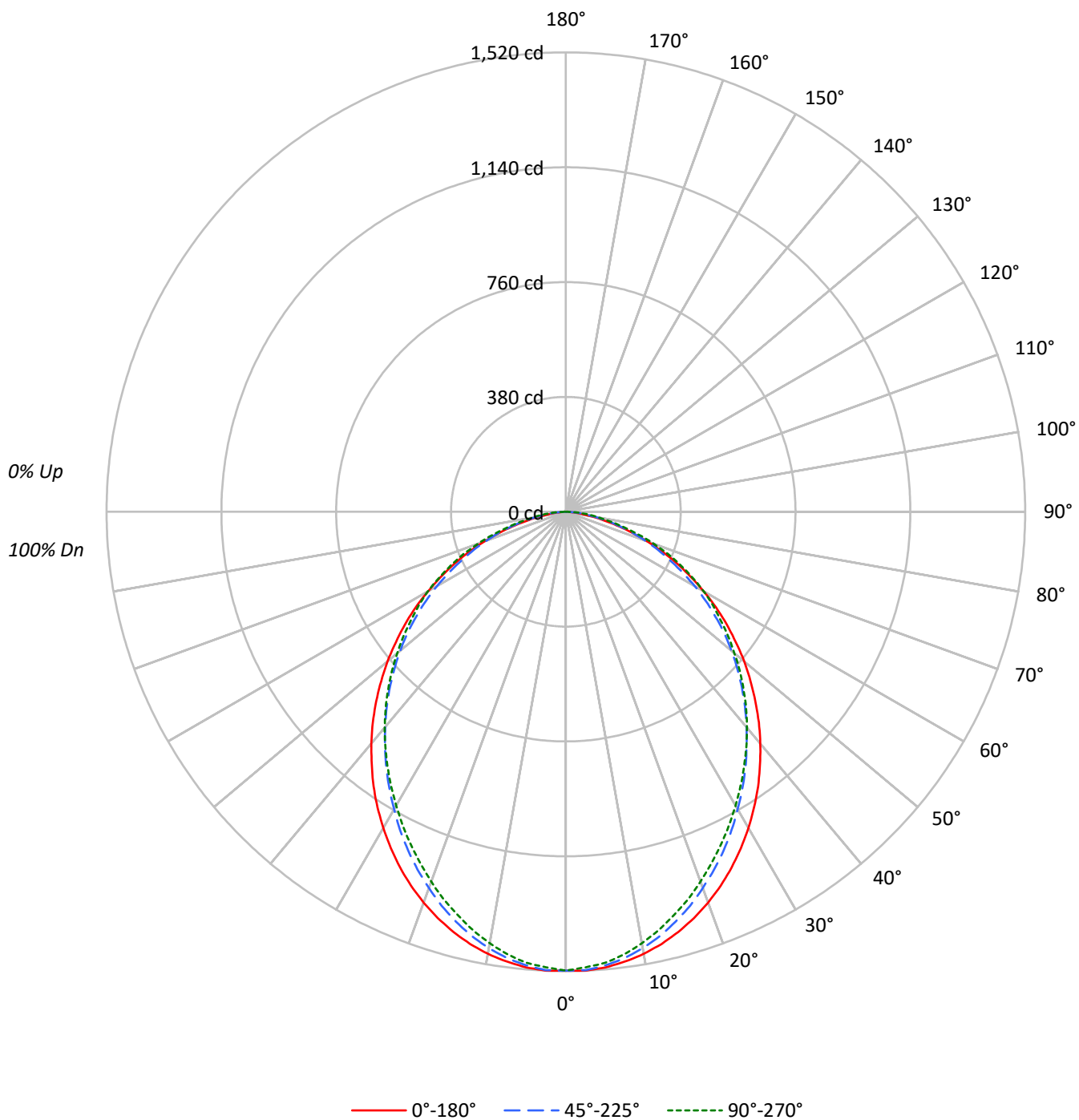
Lumens per Lamp: N/A
Luminaire Lumens: 3608.0 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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	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°	4085	4085	4085
5°	4087	4070	4047
10°	4059	4007	3962
15°	4009	3911	3850
20°	3941	3794	3729
25°	3855	3669	3607
30°	3754	3532	3489
35°	3644	3402	3379
40°	3517	3268	3276
45°	3376	3135	3164
50°	3226	2995	3049
55°	3050	2835	2932
60°	2836	2651	2838
65°	2586	2423	2672
70°	2249	2198	2435
75°	1801	1909	2082
80°	1254	1526	1728
85°	704	1201	1596

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3376 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	3.9
10°-20°	395.9	11.0
20°-30°	573.3	15.9
30°-40°	657.8	18.2
40°-50°	649.2	18.0
50°-60°	554.7	15.4
60°-70°	393.3	10.9
70°-80°	196.5	5.4
80°-90°	44.9	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°	1111.6	30.8
0°-40°	1769.4	49.0
0°-60°	2973.3	82.4
0°-90°	3608.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3608.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1518	1518	1518	1518	1518	
5°	1513	1512	1507	1495	1498	144
15°	1439	1430	1404	1381	1382	405
25°	1298	1276	1236	1213	1215	598
35°	1109	1078	1036	1024	1029	693
45°	887	857	824	826	832	684
55°	650	623	604	615	625	580
65°	406	384	380	408	420	402
75°	173	164	184	198	200	187
85°	23	28	39	48	52	32
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1518.2	1518.2	1518.2	1518.2	1518.2
2.5°	1519.8	1521.2	1518.2	1506.2	1508.6
5°	1513.1	1511.9	1506.8	1494.7	1498.3
7.5°	1501.1	1498.8	1489.6	1475.0	1477.2
10°	1485.3	1480.6	1466.6	1448.2	1449.8
12.5°	1464.6	1458.1	1438.2	1416.9	1418.3
15°	1439.0	1429.6	1403.9	1380.6	1381.8
17.5°	1409.5	1398.3	1366.9	1341.5	1344.7
20°	1376.2	1361.3	1324.8	1300.0	1302.3
22.5°	1339.1	1320.7	1282.0	1257.4	1258.4
25°	1298.5	1276.3	1235.7	1213.4	1214.8
27.5°	1254.7	1230.1	1187.8	1166.7	1169.5
30°	1208.0	1181.3	1136.6	1119.5	1122.7
32.5°	1159.8	1131.2	1086.8	1072.9	1076.1
35°	1109.2	1078.1	1035.6	1024.3	1028.6
37.5°	1055.0	1024.7	982.5	977.0	980.7
40°	1001.2	970.0	930.2	927.5	932.6
42.5°	945.3	914.8	877.5	877.1	883.1
45°	887.2	857.4	823.8	826.0	831.5
47.5°	828.6	799.3	770.1	774.0	781.2
50°	770.5	742.1	715.5	721.9	728.2
52.5°	709.1	682.2	660.7	668.0	677.3
55°	650.2	622.8	604.3	614.6	625.0
57.5°	589.0	565.5	548.9	563.3	577.1
60°	527.0	504.1	492.6	513.4	527.3
62.5°	466.1	443.8	435.8	462.3	473.5
65°	406.2	384.5	380.5	407.7	419.7
67.5°	346.3	326.8	330.1	357.9	366.6
70°	285.8	268.2	279.4	304.0	309.5
72.5°	228.6	214.1	231.5	250.7	253.2
75°	173.2	163.8	183.6	198.0	200.2
77.5°	124.1	119.3	138.7	150.0	152.5
80°	80.9	82.5	98.5	108.0	111.5
82.5°	47.3	51.9	64.7	76.6	80.1
85°	22.8	28.3	38.9	47.8	51.7
87.5°	7.8	11.5	16.3	18.2	17.7
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	15.71	17.30	16.08	17.61	17.93	15.68	17.26	16.04	17.57	17.89
	3H	17.18	18.60	17.55	18.93	19.29	17.38	18.81	17.76	19.14	19.50
	4H	17.61	18.95	18.01	19.30	19.68	17.94	19.28	18.34	19.63	20.01
	6H	17.84	19.08	18.25	19.45	19.84	18.30	19.54	18.71	19.90	20.29
	8H	17.88	19.06	18.30	19.45	19.85	18.41	19.59	18.84	19.98	20.38
	12H	17.89	19.02	18.31	19.40	19.83	18.49	19.62	18.92	20.00	20.43
4H	2H	16.21	17.55	16.61	17.90	18.27	16.18	17.52	16.58	17.87	18.24
	3H	17.86	18.98	18.27	19.38	19.78	18.10	19.21	18.50	19.61	20.01
	4H	18.39	19.39	18.82	19.81	20.24	18.77	19.78	19.20	20.19	20.63
	6H	18.70	19.57	19.15	20.01	20.47	19.24	20.12	19.70	20.56	21.02
	8H	18.76	19.58	19.22	20.02	20.48	19.40	20.21	19.86	20.66	21.12
	12H	18.78	19.52	19.26	19.99	20.46	19.52	20.25	20.00	20.73	21.20
8H	4H	18.62	19.44	19.08	19.88	20.35	18.97	19.79	19.43	20.23	20.70
	6H	19.00	19.68	19.50	20.17	20.65	19.53	20.21	20.03	20.70	21.17
	8H	19.10	19.70	19.61	20.21	20.70	19.74	20.35	20.26	20.86	21.35
	12H	19.15	19.69	19.66	20.18	20.74	19.93	20.47	20.44	20.96	21.52
12H	4H	18.64	19.37	19.12	19.85	20.32	18.97	19.70	19.45	20.18	20.65
	6H	19.03	19.64	19.54	20.15	20.63	19.54	20.15	20.05	20.66	21.14
	8H	19.17	19.70	19.68	20.20	20.76	19.80	20.34	20.31	20.83	21.39