

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: P1498127

Luminaire Tested: MAE-G-2-120-1LO-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498127
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-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

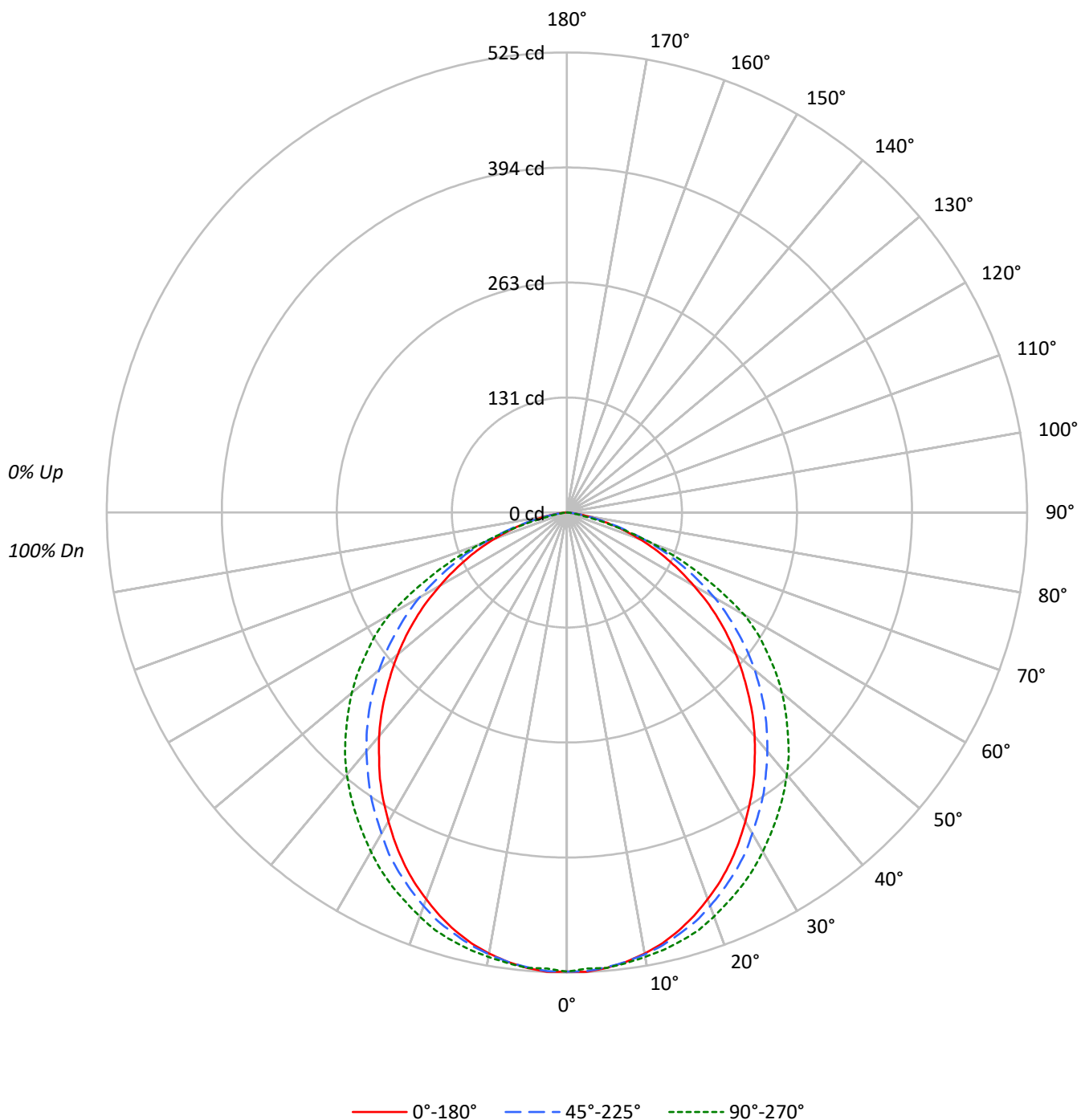
Lumens per Lamp: N/A
Luminaire Lumens: 1319.0 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 12.2
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	74	68	90	80	73	67	77	71	66	75	70	65	72	68	64	62		
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53		
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41		
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1410	1410	1410
5°	1409	1407	1409
10°	1397	1399	1407
15°	1376	1386	1409
20°	1345	1369	1405
25°	1309	1345	1399
30°	1265	1314	1389
35°	1221	1285	1379
40°	1170	1250	1372
45°	1113	1214	1357
50°	1054	1171	1341
55°	987	1114	1308
60°	901	1047	1258
65°	806	936	1080
70°	688	789	825
75°	533	572	463
80°	350	304	164
85°	185	139	93

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1357 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.5	3.8
10°-20°	140.6	10.7
20°-30°	209.1	15.9
30°-40°	245.8	18.6
40°-50°	248.1	18.8
50°-60°	215.4	16.3
60°-70°	146.6	11.1
70°-80°	57.1	4.3
80°-90°	6.8	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°	399.1	30.3
0°-40°	644.9	48.9
0°-60°	1108.4	84.0
0°-90°	1319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1319.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	524	524	524	524	524	
5°	522	521	521	521	522	49
15°	494	494	498	503	506	139
25°	441	443	453	464	471	203
35°	372	376	391	409	420	232
45°	292	300	319	344	357	226
55°	210	217	238	265	279	188
65°	127	133	147	163	170	126
75°	51	54	55	50	44	56
85°	6	6	4	4	3	9
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	523.9	523.9	523.9	523.9	523.9
2.5°	524.7	524.7	523.9	521.7	520.9
5°	521.7	520.9	520.9	520.9	521.7
7.5°	517.1	517.1	517.1	517.9	518.6
10°	511.1	511.1	511.9	513.4	514.9
12.5°	503.6	504.3	505.8	508.8	511.1
15°	493.8	494.5	497.5	502.8	505.8
17.5°	482.5	484.7	489.2	495.3	499.8
20°	469.6	471.9	477.9	485.5	490.7
22.5°	456.1	458.3	465.9	474.9	480.9
25°	441.0	443.3	453.1	464.4	471.1
27.5°	424.4	427.4	439.5	451.5	459.8
30°	407.1	410.8	422.9	438.0	447.0
32.5°	389.7	394.3	407.1	424.4	433.5
35°	371.6	376.2	391.2	409.3	419.9
37.5°	352.0	357.3	373.1	395.0	405.6
40°	333.2	338.5	355.8	379.2	390.5
42.5°	313.6	319.6	337.7	361.8	374.7
45°	292.5	300.0	318.9	343.7	356.6
47.5°	272.1	278.9	299.3	324.9	338.5
50°	251.8	259.3	279.7	306.1	320.4
52.5°	231.4	238.2	259.3	285.7	300.8
55°	210.3	217.1	237.5	264.6	278.9
57.5°	189.2	197.5	216.4	242.7	258.6
60°	167.4	174.9	194.5	220.9	233.7
62.5°	147.0	153.8	170.4	195.2	201.3
65°	126.6	132.7	147.0	162.8	169.6
67.5°	107.8	112.3	125.1	135.7	138.7
70°	87.4	92.0	100.3	106.3	104.8
72.5°	69.4	72.4	77.6	76.9	73.1
75°	51.3	54.3	55.0	49.8	44.5
77.5°	36.2	37.7	35.4	27.9	22.6
80°	22.6	23.4	19.6	12.1	10.6
82.5°	12.8	12.8	9.0	7.5	6.0
85°	6.0	6.0	4.5	3.8	3.0
87.5°	2.3	2.3	1.5	1.5	1.5
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	11.80	13.38	12.16	13.69	14.00	13.38	14.96	13.74	15.27	15.58
	3H	13.13	14.55	13.51	14.88	15.24	14.65	16.06	15.02	16.39	16.75
	4H	13.50	14.83	13.90	15.18	15.56	14.84	16.17	15.24	16.52	16.90
	6H	13.67	14.89	14.08	15.26	15.65	14.84	16.07	15.25	16.43	16.82
	8H	13.68	14.85	14.11	15.24	15.64	14.81	15.98	15.24	16.37	16.77
	12H	13.67	14.79	14.10	15.17	15.60	14.79	15.91	15.22	16.29	16.72
4H	2H	12.46	13.79	12.86	14.14	14.52	13.75	15.08	14.15	15.43	15.81
	3H	13.96	15.06	14.37	15.46	15.86	15.19	16.29	15.60	16.69	17.09
	4H	14.40	15.39	14.83	15.81	16.24	15.44	16.43	15.88	16.85	17.29
	6H	14.63	15.49	15.08	15.93	16.39	15.47	16.33	15.93	16.77	17.23
	8H	14.65	15.45	15.11	15.90	16.36	15.45	16.25	15.91	16.69	17.16
	12H	14.66	15.37	15.14	15.85	16.32	15.42	16.14	15.91	16.62	17.09
8H	4H	14.56	15.36	15.02	15.80	16.27	15.53	16.33	15.99	16.77	17.24
	6H	14.82	15.48	15.32	15.97	16.45	15.56	16.22	16.06	16.71	17.19
	8H	14.86	15.45	15.37	15.96	16.45	15.54	16.13	16.05	16.63	17.12
	12H	14.88	15.40	15.39	15.89	16.46	15.52	16.04	16.03	16.53	17.10
12H	4H	14.54	15.26	15.02	15.73	16.21	15.51	16.23	16.00	16.71	17.18
	6H	14.79	15.38	15.30	15.89	16.38	15.54	16.13	16.05	16.63	17.12
	8H	14.86	15.38	15.37	15.87	16.43	15.53	16.05	16.04	16.54	17.11

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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