

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: P1498409

Luminaire Tested: MAE-G-2-120-2LO-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2LO-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

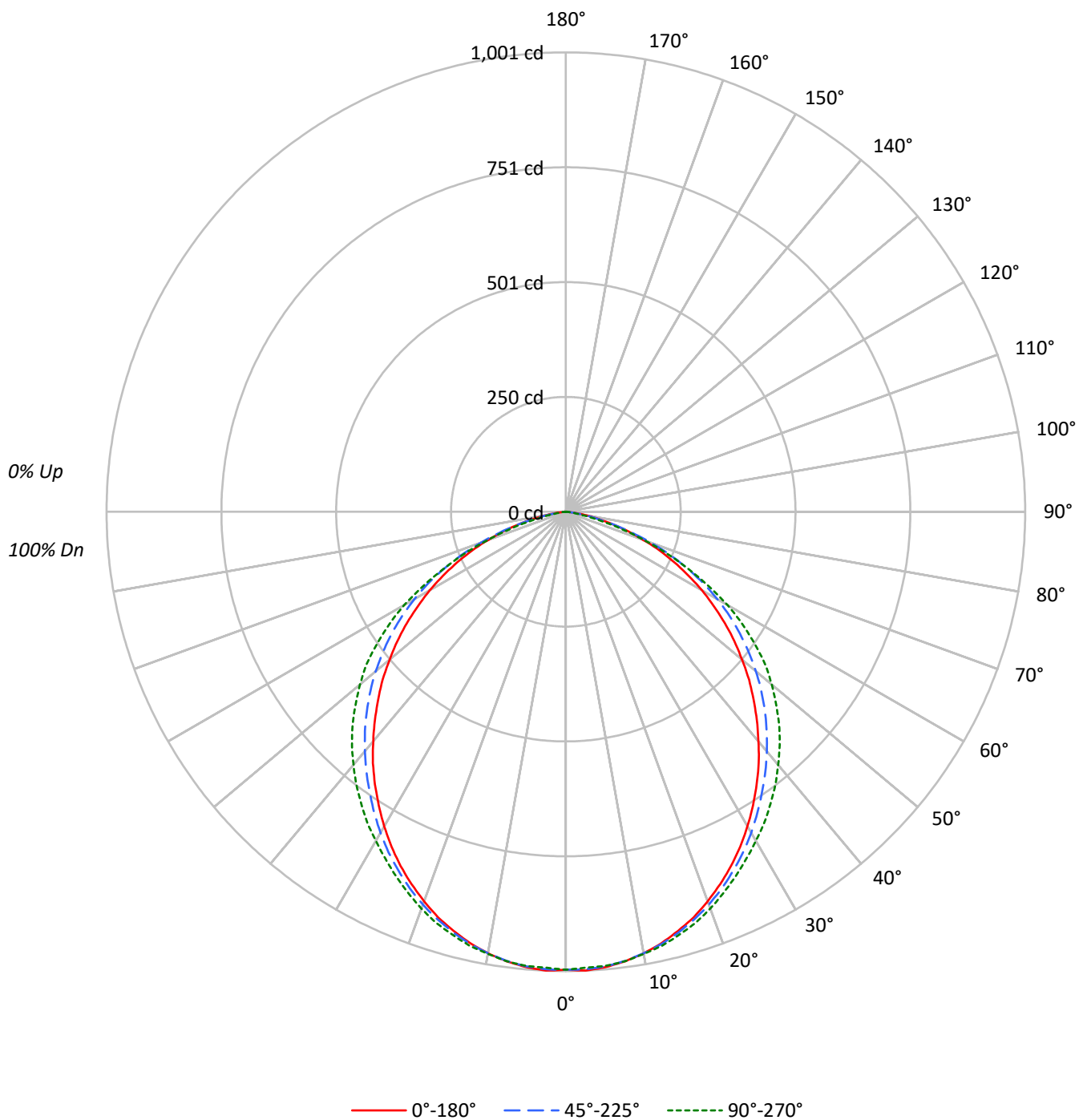
Lumens per Lamp: N/A
Luminaire Lumens: 2519.0 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 24.5
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	105	102	98	107	103	100	97	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	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		54	48	43		53
7	67	53	45	39	65	53	45	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	37	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°	2685	2685	2685
5°	2690	2686	2683
10°	2669	2669	2673
15°	2634	2643	2659
20°	2587	2609	2635
25°	2529	2563	2601
30°	2460	2510	2573
35°	2382	2449	2553
40°	2294	2394	2529
45°	2200	2334	2502
50°	2098	2264	2451
55°	1983	2173	2359
60°	1842	2052	2190
65°	1661	1864	1875
70°	1419	1552	1450
75°	1114	1124	906
80°	724	578	347
85°	337	219	179

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2502 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.2	3.7
10°-20°	267.3	10.6
20°-30°	397.1	15.8
30°-40°	467.7	18.6
40°-50°	473.9	18.8
50°-60°	412.5	16.4
60°-70°	281.1	11.2
70°-80°	112.3	4.5
80°-90°	12.9	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°	758.7	30.1
0°-40°	1226.4	48.7
0°-60°	2112.7	83.9
0°-90°	2519.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2519.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	998	998	998	998	998	
5°	996	990	994	993	993	94
15°	945	941	949	952	954	266
25°	852	852	863	870	876	392
35°	725	729	746	765	777	453
45°	578	585	613	642	657	446
55°	423	432	463	492	503	378
65°	261	273	293	293	294	259
75°	107	114	108	93	87	115
85°	11	10	7	6	6	17
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	997.9	997.9	997.9	997.9	997.9
2.5°	1000.7	994.2	997.9	997.2	994.5
5°	995.9	990.1	994.2	992.9	993.2
7.5°	988.1	982.7	987.1	986.7	987.8
10°	976.9	971.5	976.9	977.2	978.3
12.5°	963.0	958.3	964.7	966.1	968.5
15°	945.4	941.4	948.8	952.2	954.5
17.5°	926.5	923.8	931.2	935.6	939.3
20°	903.4	902.0	910.9	915.2	920.3
22.5°	878.3	877.6	888.2	893.6	898.7
25°	851.9	852.2	863.1	870.2	876.0
27.5°	822.7	823.4	836.7	845.1	852.2
30°	791.6	793.3	807.8	819.4	828.2
32.5°	758.7	761.8	777.3	793.3	804.4
35°	725.1	728.6	745.5	765.1	777.3
37.5°	690.6	694.4	714.0	737.0	749.9
40°	653.0	658.7	681.5	706.9	720.0
42.5°	616.0	622.5	647.9	675.7	689.9
45°	578.1	585.2	613.3	642.1	657.4
47.5°	541.5	547.6	577.7	607.9	621.5
50°	501.2	509.3	540.8	571.0	585.5
52.5°	462.6	470.3	502.5	533.3	548.3
55°	422.6	431.7	463.2	492.4	502.8
57.5°	382.3	392.7	423.2	447.3	456.4
60°	342.3	352.8	381.2	400.2	407.0
62.5°	301.9	312.8	337.9	349.4	350.7
65°	260.9	273.1	292.8	293.1	294.5
67.5°	222.0	232.1	246.3	242.3	240.3
70°	180.3	191.4	197.2	189.1	184.3
72.5°	143.3	151.4	150.5	138.6	132.9
75°	107.1	113.5	108.1	92.9	87.1
77.5°	74.2	79.6	68.8	54.5	48.8
80°	46.7	49.1	37.3	26.4	22.4
82.5°	25.1	24.7	16.0	13.2	12.2
85°	10.9	9.8	7.1	6.4	5.8
87.5°	3.7	3.4	2.7	2.4	2.0
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	14.35	15.93	14.71	16.24	16.56	15.31	16.89	15.67	17.21	17.52
	3H	15.77	17.19	16.15	17.52	17.88	16.50	17.92	16.88	18.25	18.61
	4H	16.16	17.49	16.56	17.84	18.22	16.71	18.05	17.11	18.39	18.77
	6H	16.34	17.57	16.75	17.93	18.32	16.73	17.96	17.14	18.33	18.72
	8H	16.35	17.52	16.77	17.91	18.31	16.71	17.88	17.13	18.27	18.67
	12H	16.34	17.46	16.77	17.84	18.27	16.68	17.81	17.11	18.19	18.62
4H	2H	15.01	16.34	15.41	16.69	17.07	15.78	17.12	16.18	17.46	17.84
	3H	16.59	17.69	17.00	18.09	18.49	17.13	18.24	17.54	18.64	19.04
	4H	17.06	18.05	17.49	18.47	18.91	17.40	18.39	17.83	18.81	19.25
	6H	17.30	18.16	17.76	18.60	19.06	17.45	18.31	17.91	18.76	19.21
	8H	17.32	18.13	17.79	18.57	19.04	17.43	18.23	17.89	18.67	19.14
	12H	17.32	18.04	17.81	18.52	18.99	17.41	18.12	17.89	18.60	19.07
8H	4H	17.20	18.00	17.66	18.45	18.91	17.52	18.32	17.98	18.76	19.23
	6H	17.47	18.14	17.97	18.63	19.10	17.58	18.24	18.07	18.73	19.20
	8H	17.51	18.10	18.03	18.61	19.10	17.55	18.14	18.06	18.65	19.14
	12H	17.53	18.05	18.03	18.54	19.10	17.54	18.06	18.05	18.55	19.11
12H	4H	17.18	17.90	17.66	18.38	18.85	17.50	18.22	17.99	18.70	19.17
	6H	17.44	18.04	17.96	18.55	19.03	17.55	18.14	18.06	18.65	19.14
	8H	17.51	18.03	18.02	18.52	19.08	17.55	18.07	18.06	18.56	19.13