

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: P1499327

Luminaire Tested: MAE-G-4-120-2LO-LO-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499327
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-4-120-2LO-LO-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

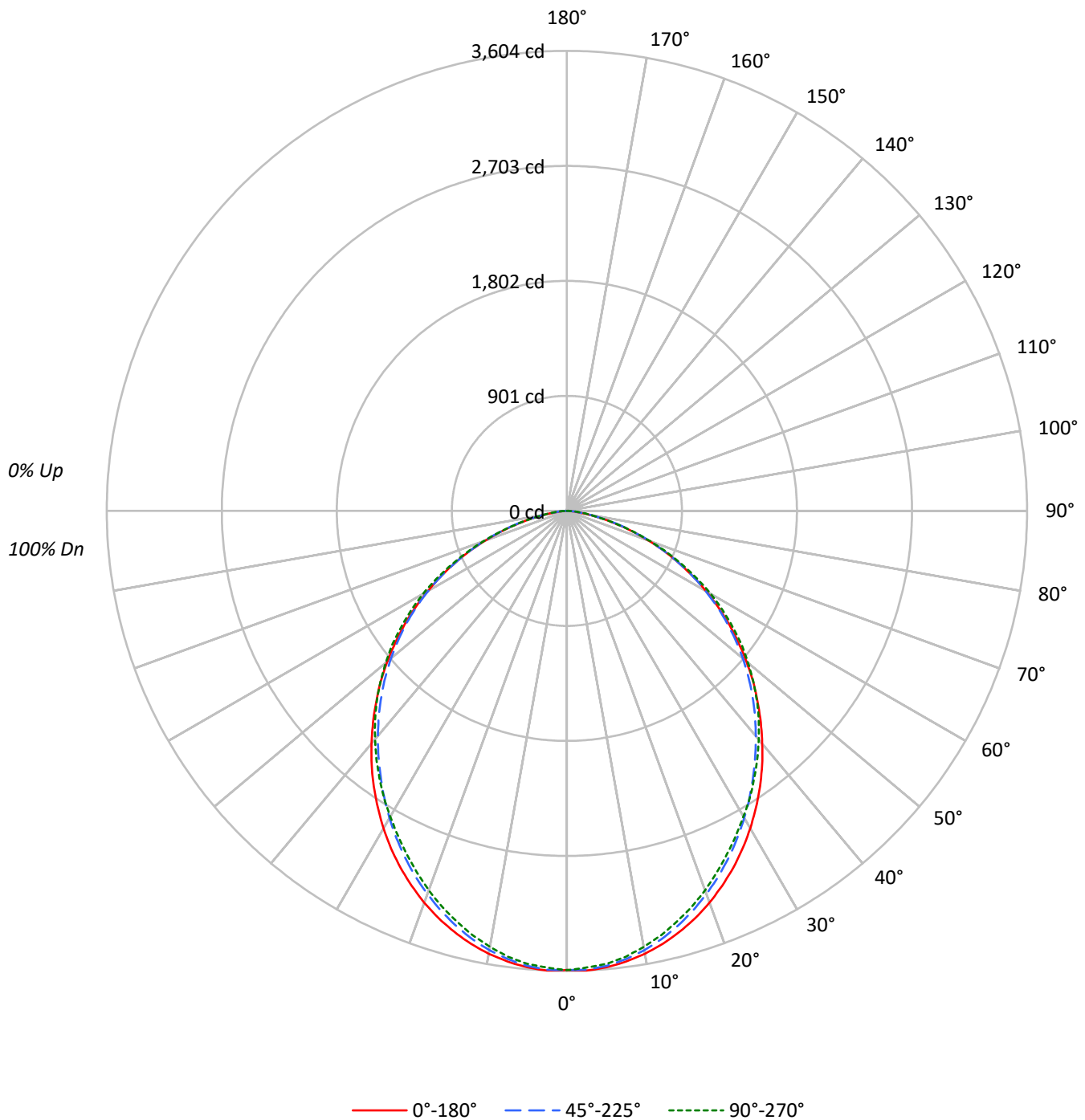
Lumens per Lamp: N/A
Luminaire Lumens: 8756.0 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 96.2
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	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		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	61	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	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4840	4840	4840
5°	4847	4831	4810
10°	4813	4774	4738
15°	4754	4684	4639
20°	4677	4574	4528
25°	4578	4450	4406
30°	4462	4316	4296
35°	4330	4176	4202
40°	4180	4045	4106
45°	4018	3910	4005
50°	3842	3764	3877
55°	3639	3590	3717
60°	3395	3375	3504
65°	3087	3088	3176
70°	2666	2696	2734
75°	2124	2185	2159
80°	1438	1517	1523
85°	739	1014	1294

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4018 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.3	3.9
10°-20°	947.4	10.8
20°-30°	1385.3	15.8
30°-40°	1606.6	18.3
40°-50°	1603.8	18.3
50°-60°	1381.6	15.8
60°-70°	964.1	11.0
70°-80°	445.4	5.1
80°-90°	83.5	1.0
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°	2671.0	30.5
0°-40°	4277.6	48.9
0°-60°	7263.0	82.9
0°-90°	8756.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8756.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3597	3597	3597	3597	3597	
5°	3589	3576	3577	3556	3561	340
15°	3413	3389	3363	3328	3330	962
25°	3084	3049	2998	2963	2968	1419
35°	2636	2591	2543	2541	2558	1648
45°	2112	2072	2055	2083	2105	1629
55°	1551	1521	1531	1568	1584	1385
65°	970	955	970	987	998	959
75°	409	404	420	417	415	440
85°	48	54	66	79	84	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3597.2	3597.2	3597.2	3597.2	3597.2
2.5°	3604.5	3592.8	3597.2	3581.5	3580.5
5°	3588.8	3575.8	3577.1	3556.5	3561.2
7.5°	3561.2	3546.1	3542.1	3518.8	3523.2
10°	3522.9	3504.4	3494.4	3465.7	3467.9
12.5°	3473.9	3452.9	3435.4	3402.3	3406.1
15°	3412.9	3389.3	3362.9	3328.3	3330.4
17.5°	3345.6	3320.0	3283.0	3246.2	3252.1
20°	3266.1	3237.9	3194.4	3156.1	3162.3
22.5°	3177.9	3146.0	3100.6	3062.6	3066.1
25°	3083.9	3048.6	2997.7	2963.3	2967.5
27.5°	2981.6	2942.3	2890.5	2859.7	2866.9
30°	2871.7	2830.5	2778.1	2755.2	2765.3
32.5°	2756.0	2713.7	2662.9	2650.9	2666.1
35°	2636.3	2591.3	2542.7	2541.3	2558.0
37.5°	2511.7	2467.4	2423.7	2432.6	2450.1
40°	2379.8	2338.2	2302.8	2318.6	2337.6
42.5°	2247.1	2207.1	2180.2	2203.4	2223.7
45°	2111.8	2072.1	2054.9	2082.9	2104.6
47.5°	1977.2	1937.1	1928.7	1961.0	1980.6
50°	1835.5	1799.8	1798.1	1833.2	1852.2
52.5°	1692.5	1659.5	1665.6	1703.2	1726.6
55°	1551.2	1520.6	1530.6	1568.1	1584.5
57.5°	1406.0	1381.7	1394.9	1428.2	1444.6
60°	1261.6	1239.2	1254.2	1286.2	1302.1
62.5°	1115.5	1095.9	1113.3	1140.0	1150.4
65°	969.6	955.0	969.9	987.1	997.6
67.5°	826.0	812.2	828.5	845.1	848.9
70°	677.6	668.9	685.4	695.2	695.1
72.5°	541.0	532.6	548.2	551.9	549.1
75°	408.6	404.1	420.3	416.8	415.4
77.5°	288.3	290.4	298.9	296.2	295.5
80°	185.6	192.2	195.8	197.8	196.5
82.5°	104.4	110.3	116.0	129.8	135.2
85°	47.9	53.7	65.7	78.6	83.8
87.5°	16.2	20.8	27.6	29.7	28.2
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	16.41	17.99	16.77	18.30	18.62	16.63	18.21	16.99	18.53	18.84
	3H	17.87	19.29	18.25	19.62	19.98	18.10	19.52	18.47	19.85	20.21
	4H	18.30	19.63	18.69	19.98	20.36	18.51	19.85	18.91	20.20	20.57
	6H	18.50	19.74	18.91	20.10	20.50	18.72	19.96	19.13	20.32	20.71
	8H	18.53	19.71	18.96	20.10	20.50	18.76	19.94	19.19	20.33	20.73
	12H	18.53	19.66	18.96	20.04	20.47	18.79	19.92	19.22	20.30	20.73
4H	2H	16.96	18.30	17.36	18.65	19.03	17.15	18.48	17.55	18.83	19.21
	3H	18.61	19.72	19.02	20.12	20.52	18.80	19.91	19.21	20.31	20.71
	4H	19.12	20.12	19.55	20.53	20.97	19.31	20.31	19.74	20.72	21.16
	6H	19.40	20.27	19.86	20.71	21.17	19.59	20.46	20.05	20.91	21.36
	8H	19.45	20.26	19.91	20.70	21.17	19.66	20.47	20.12	20.92	21.38
	12H	19.46	20.19	19.94	20.66	21.13	19.71	20.44	20.19	20.92	21.39
8H	4H	19.30	20.12	19.77	20.56	21.03	19.48	20.29	19.94	20.73	21.20
	6H	19.65	20.32	20.14	20.81	21.28	19.82	20.49	20.32	20.98	21.46
	8H	19.72	20.32	20.23	20.83	21.31	19.93	20.53	20.44	21.03	21.52
	12H	19.75	20.28	20.26	20.77	21.34	20.02	20.55	20.52	21.04	21.60
12H	4H	19.30	20.03	19.79	20.51	20.98	19.47	20.20	19.96	20.68	21.15
	6H	19.65	20.25	20.16	20.76	21.24	19.82	20.42	20.33	20.93	21.42
	8H	19.75	20.28	20.26	20.77	21.34	19.96	20.49	20.47	20.98	21.54