

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: P1499663

Luminaire Tested: MAE-G-4-120-3STD-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-3STD-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

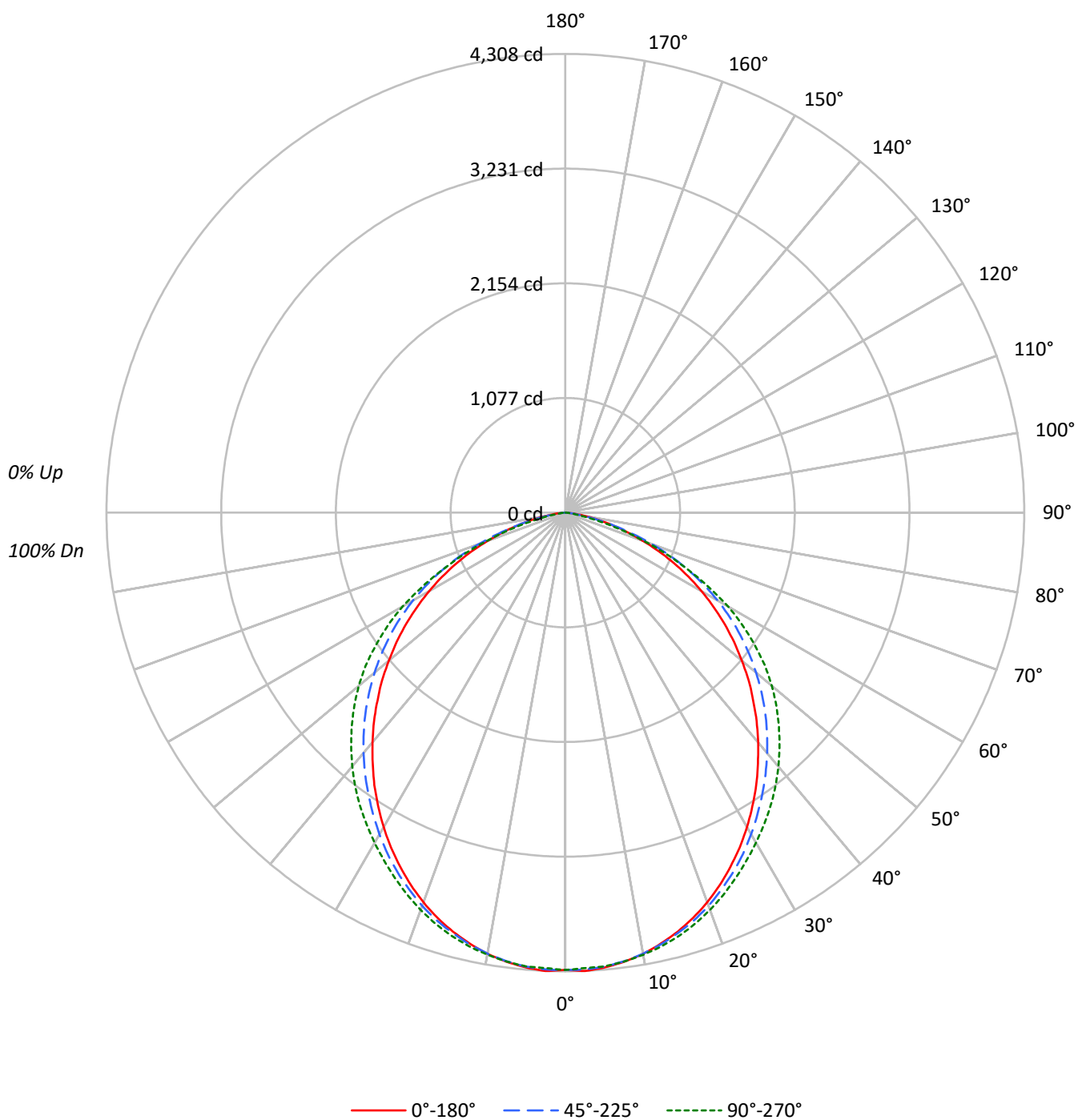
Lumens per Lamp: N/A
Luminaire Lumens: 10885.0 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 102.4
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	96	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	57	69	62	57		67	61	56		65
5	78	65	56	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	44	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	36	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°	5778	5778	5778
5°	5791	5779	5776
10°	5748	5746	5759
15°	5675	5693	5735
20°	5576	5627	5686
25°	5447	5534	5621
30°	5299	5420	5562
35°	5133	5296	5519
40°	4946	5176	5464
45°	4745	5049	5394
50°	4525	4893	5298
55°	4282	4703	5094
60°	3973	4444	4754
65°	3588	4053	4072
70°	3063	3403	3164
75°	2405	2483	1946
80°	1570	1277	753
85°	752	505	400

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5394 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.7	3.7
10°-20°	1151.7	10.6
20°-30°	1712.9	15.7
30°-40°	2018.5	18.5
40°-50°	2046.5	18.8
50°-60°	1783.3	16.4
60°-70°	1219.6	11.2
70°-80°	489.9	4.5
80°-90°	56.8	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°	3270.3	30.0
0°-40°	5288.8	48.6
0°-60°	9118.7	83.8
0°-90°	10885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10885.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4295	4295	4295	4295	4295	
5°	4288	4262	4279	4274	4277	407
15°	4074	4056	4087	4104	4117	1148
25°	3669	3670	3728	3755	3786	1689
35°	3125	3139	3224	3304	3360	1952
45°	2494	2527	2653	2772	2835	1925
55°	1825	1864	2005	2131	2172	1629
65°	1127	1178	1273	1283	1279	1114
75°	463	494	478	410	374	497
85°	49	44	33	29	26	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4294.7	4294.7	4294.7	4294.7	4294.7
2.5°	4308.5	4279.8	4294.7	4291.6	4280.7
5°	4287.7	4261.8	4278.7	4273.9	4276.7
7.5°	4253.9	4230.2	4248.0	4247.1	4251.9
10°	4207.4	4183.4	4205.4	4209.3	4215.3
12.5°	4145.7	4125.9	4152.7	4160.6	4172.5
15°	4074.1	4056.4	4087.1	4104.0	4116.9
17.5°	3990.7	3975.8	4015.5	4031.6	4049.3
20°	3894.4	3883.6	3930.2	3945.1	3971.0
22.5°	3787.3	3781.4	3829.9	3852.7	3882.5
25°	3669.0	3670.1	3727.6	3754.6	3786.2
27.5°	3545.0	3547.0	3612.6	3650.1	3683.9
30°	3410.9	3416.8	3488.4	3535.1	3579.7
32.5°	3268.9	3280.7	3358.2	3421.9	3471.5
35°	3124.9	3138.7	3224.3	3303.6	3360.2
37.5°	2969.1	2991.9	3088.3	3182.6	3241.0
40°	2816.1	2838.9	2947.1	3051.4	3111.1
42.5°	2658.3	2687.0	2802.3	2918.4	2975.9
45°	2493.5	2527.0	2653.2	2772.4	2835.0
47.5°	2335.4	2365.3	2498.3	2622.5	2687.0
50°	2161.6	2199.4	2337.4	2467.6	2531.2
52.5°	1995.9	2030.6	2172.6	2305.8	2363.3
55°	1825.2	1863.8	2004.9	2130.9	2171.7
57.5°	1650.2	1697.0	1833.1	1938.4	1977.0
60°	1476.6	1523.2	1651.3	1737.8	1766.6
62.5°	1303.7	1353.5	1465.7	1523.2	1523.2
65°	1127.0	1177.7	1273.0	1282.8	1278.9
67.5°	950.3	1001.0	1073.5	1055.5	1043.6
70°	778.5	822.2	865.0	832.0	804.4
72.5°	611.7	653.4	660.4	612.8	577.9
75°	462.7	493.6	477.6	410.2	374.4
77.5°	322.6	340.6	306.8	238.4	209.6
80°	202.6	210.5	164.8	116.1	97.2
82.5°	109.3	110.2	71.5	58.6	54.6
85°	48.7	43.7	32.7	28.8	25.9
87.5°	16.9	14.9	11.9	11.0	9.0
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	17.02	18.60	17.39	18.92	19.23	18.00	19.59	18.37	19.90	20.22
	3H	18.43	19.85	18.81	20.18	20.54	19.21	20.63	19.59	20.96	21.32
	4H	18.82	20.16	19.22	20.51	20.88	19.43	20.76	19.82	21.11	21.48
	6H	19.00	20.23	19.41	20.60	20.99	19.44	20.67	19.85	21.04	21.43
	8H	19.01	20.19	19.44	20.58	20.98	19.42	20.59	19.84	20.98	21.38
	12H	19.00	20.13	19.43	20.51	20.94	19.39	20.52	19.82	20.90	21.33
4H	2H	17.69	19.03	18.09	19.37	19.75	18.48	19.82	18.88	20.16	20.54
	3H	19.26	20.37	19.67	20.76	21.17	19.85	20.96	20.26	21.36	21.76
	4H	19.74	20.73	20.17	21.14	21.58	20.12	21.12	20.56	21.53	21.97
	6H	19.98	20.84	20.43	21.28	21.74	20.18	21.04	20.63	21.48	21.94
	8H	20.00	20.80	20.46	21.25	21.71	20.15	20.96	20.61	21.40	21.87
	12H	20.00	20.72	20.48	21.20	21.67	20.13	20.85	20.61	21.33	21.80
8H	4H	19.88	20.69	20.34	21.13	21.60	20.24	21.05	20.70	21.49	21.96
	6H	20.16	20.82	20.65	21.31	21.79	20.30	20.96	20.80	21.45	21.93
	8H	20.20	20.79	20.71	21.30	21.79	20.28	20.87	20.79	21.38	21.87
	12H	20.21	20.73	20.72	21.22	21.79	20.27	20.79	20.77	21.28	21.84
12H	4H	19.86	20.58	20.35	21.06	21.53	20.23	20.95	20.71	21.43	21.90
	6H	20.13	20.72	20.64	21.23	21.72	20.28	20.87	20.79	21.38	21.87
	8H	20.19	20.71	20.70	21.21	21.77	20.28	20.80	20.79	21.29	21.86