

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: P1499162

Luminaire Tested: MAE-G-4-120-1STD-STD-35-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499162
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-4-120-1STD-STD-35-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

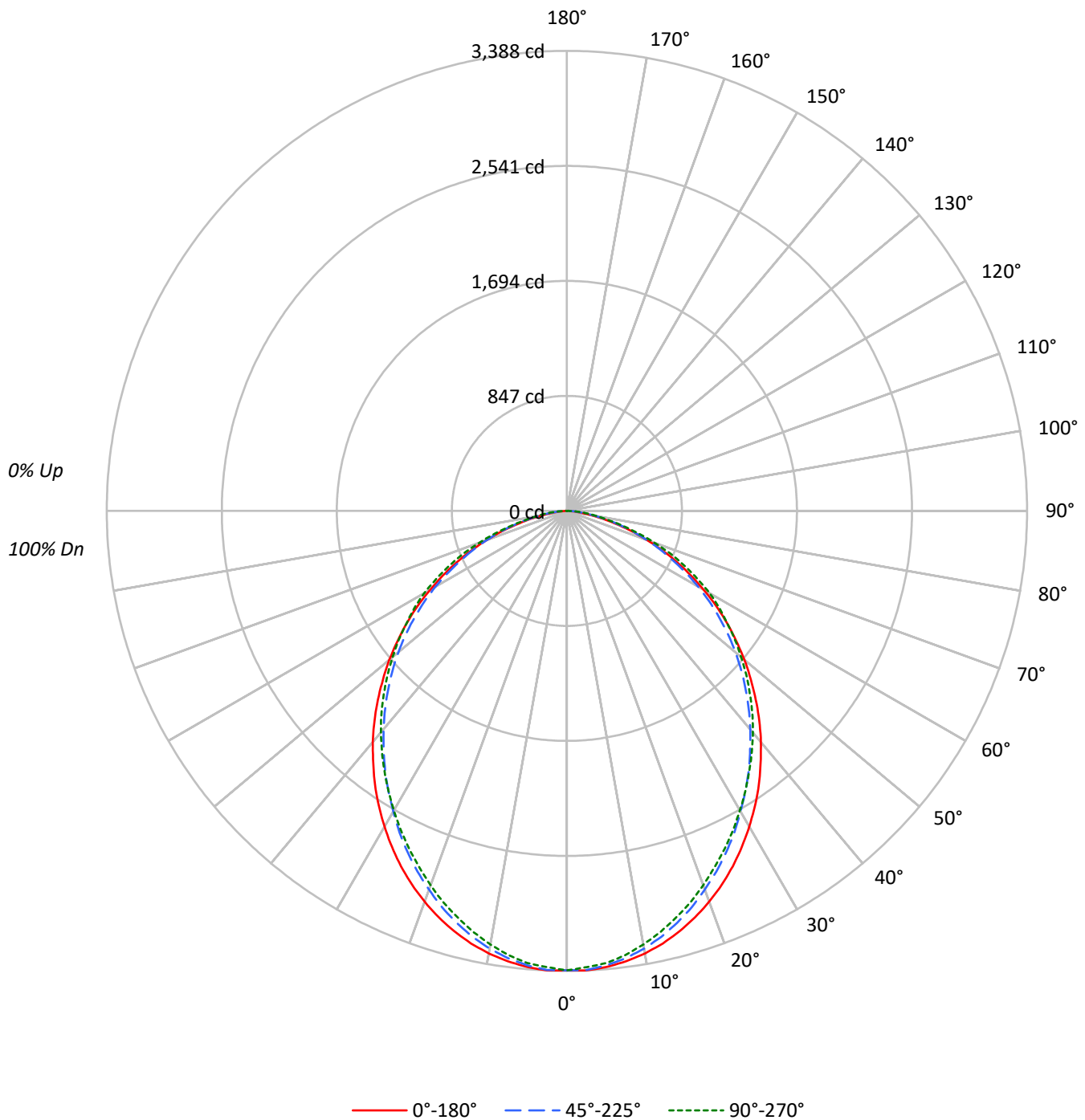
Lumens per Lamp: N/A
Luminaire Lumens: 8097.0 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 102.6
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	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	82	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	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	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°	4553	4553	4553
5°	4554	4537	4515
10°	4521	4472	4430
15°	4464	4372	4320
20°	4386	4250	4200
25°	4289	4119	4077
30°	4172	3972	3957
35°	4047	3833	3846
40°	3903	3687	3742
45°	3743	3543	3626
50°	3572	3390	3506
55°	3375	3210	3379
60°	3131	3004	3267
65°	2850	2737	3037
70°	2473	2461	2707
75°	1973	2095	2223
80°	1365	1618	1764
85°	763	1233	1606

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3743 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.6	3.9
10°-20°	885.4	10.9
20°-30°	1286.2	15.9
30°-40°	1480.2	18.3
40°-50°	1465.1	18.1
50°-60°	1254.4	15.5
60°-70°	884.7	10.9
70°-80°	429.9	5.3
80°-90°	93.6	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°	2489.2	30.7
0°-40°	3969.4	49.0
0°-60°	6688.9	82.6
0°-90°	8097.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8097.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3384	3384	3384	3384	3384	
5°	3372	3369	3359	3335	3343	320
15°	3205	3187	3139	3097	3101	903
25°	2889	2847	2774	2739	2746	1329
35°	2464	2406	2334	2325	2341	1539
45°	1967	1914	1862	1885	1906	1517
55°	1439	1390	1368	1409	1441	1284
65°	895	857	860	925	954	886
75°	380	363	403	427	428	410
85°	49	60	80	97	104	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3383.6	3383.6	3383.6	3383.6	3383.6
2.5°	3387.5	3390.3	3383.6	3358.2	3362.7
5°	3371.9	3369.1	3359.0	3335.3	3342.7
7.5°	3345.0	3340.4	3322.2	3294.1	3299.1
10°	3309.3	3300.0	3273.1	3237.9	3242.1
12.5°	3263.0	3250.6	3212.6	3172.8	3177.2
15°	3205.0	3187.1	3138.9	3097.0	3101.4
17.5°	3138.4	3118.1	3059.7	3014.2	3023.8
20°	3063.2	3035.5	2968.4	2925.2	2933.5
22.5°	2980.2	2945.5	2874.9	2833.4	2839.9
25°	2888.7	2846.6	2774.3	2738.7	2746.5
27.5°	2790.1	2743.9	2669.4	2637.0	2648.9
30°	2685.1	2635.1	2556.4	2534.0	2547.0
32.5°	2577.1	2524.1	2446.4	2432.1	2445.1
35°	2463.7	2405.9	2333.5	2324.9	2341.2
37.5°	2342.3	2286.8	2215.4	2220.9	2236.2
40°	2222.3	2164.7	2099.4	2111.7	2130.2
42.5°	2097.3	2041.8	1982.1	1999.4	2020.9
45°	1967.1	1914.1	1862.1	1885.0	1905.6
47.5°	1836.4	1784.0	1741.7	1768.5	1792.9
50°	1706.7	1656.4	1619.3	1651.8	1674.9
52.5°	1570.6	1522.6	1496.1	1530.3	1559.9
55°	1438.6	1389.8	1368.4	1409.3	1440.6
57.5°	1302.2	1262.2	1243.8	1291.8	1330.9
60°	1163.7	1124.2	1116.4	1177.0	1214.1
62.5°	1028.4	989.7	986.2	1057.2	1083.8
65°	895.1	856.9	859.8	925.4	954.0
67.5°	763.1	728.0	744.1	807.0	826.2
70°	628.6	597.4	625.6	678.7	688.1
72.5°	502.3	476.0	514.3	551.4	553.7
75°	379.6	363.4	402.9	427.4	427.6
77.5°	271.7	263.2	299.7	316.3	317.4
80°	176.2	180.1	208.8	221.9	227.6
82.5°	102.7	111.7	134.3	156.4	162.4
85°	49.4	60.3	79.9	97.0	104.0
87.5°	17.1	24.3	33.3	36.9	35.9
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	16.06	17.65	16.43	17.96	18.28	16.23	17.82	16.60	18.13	18.45
	3H	17.51	18.94	17.89	19.26	19.63	17.88	19.30	18.26	19.63	19.99
	4H	17.94	19.28	18.34	19.63	20.00	18.38	19.72	18.78	20.07	20.44
	6H	18.16	19.40	18.57	19.76	20.16	18.68	19.91	19.09	20.28	20.67
	8H	18.20	19.38	18.62	19.77	20.17	18.76	19.94	19.19	20.33	20.73
	12H	18.20	19.33	18.63	19.71	20.14	18.82	19.95	19.25	20.34	20.77
4H	2H	16.58	17.92	16.98	18.27	18.64	16.72	18.06	17.12	18.40	18.78
	3H	18.21	19.33	18.62	19.73	20.13	18.57	19.68	18.98	20.08	20.48
	4H	18.73	19.73	19.16	20.15	20.58	19.18	20.19	19.61	20.60	21.04
	6H	19.03	19.90	19.48	20.34	20.80	19.58	20.45	20.04	20.90	21.35
	8H	19.08	19.90	19.54	20.34	20.81	19.70	20.52	20.16	20.96	21.43
	12H	19.11	19.84	19.59	20.31	20.78	19.80	20.53	20.28	21.01	21.48
8H	4H	18.95	19.77	19.41	20.21	20.68	19.36	20.18	19.82	20.62	21.09
	6H	19.32	19.99	19.81	20.48	20.96	19.84	20.52	20.34	21.01	21.48
	8H	19.41	20.01	19.92	20.52	21.01	20.02	20.62	20.53	21.13	21.62
	12H	19.46	19.99	19.97	20.49	21.05	20.17	20.71	20.68	21.20	21.76
12H	4H	18.96	19.69	19.44	20.17	20.64	19.36	20.09	19.84	20.57	21.04
	6H	19.34	19.95	19.85	20.45	20.94	19.85	20.45	20.36	20.96	21.45
	8H	19.47	20.00	19.98	20.49	21.06	20.07	20.60	20.58	21.09	21.66

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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