

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: P1499573

Luminaire Tested: MAE-G-4-120-3LO-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499573
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-4-120-3LO-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

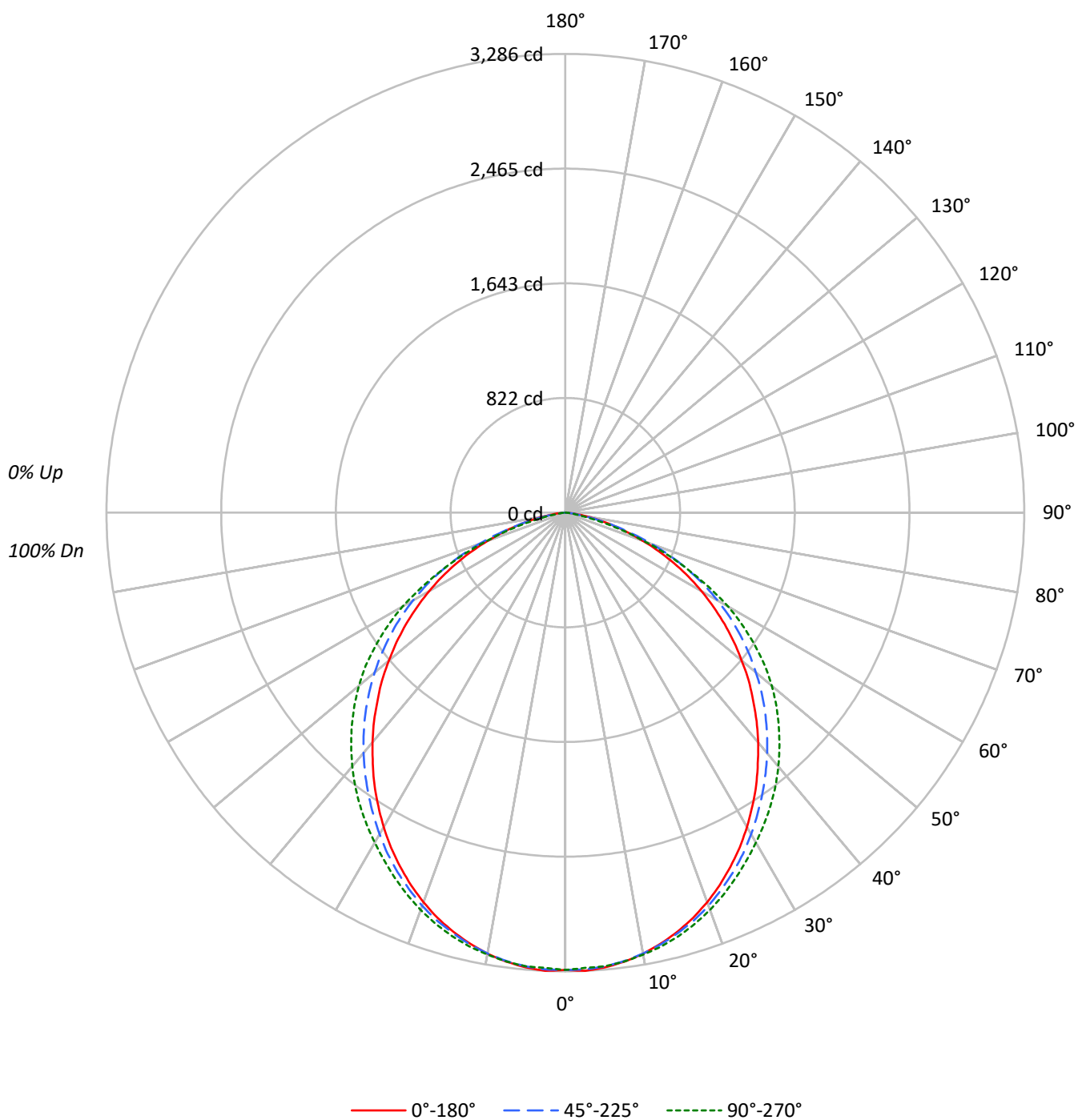
Lumens per Lamp: N/A
Luminaire Lumens: 8301.0 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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°	4407	4407	4407
5°	4416	4407	4405
10°	4384	4382	4392
15°	4328	4342	4373
20°	4252	4292	4336
25°	4154	4220	4287
30°	4041	4133	4241
35°	3914	4039	4209
40°	3772	3948	4167
45°	3618	3850	4114
50°	3451	3731	4041
55°	3265	3587	3885
60°	3030	3389	3625
65°	2736	3091	3105
70°	2336	2595	2413
75°	1834	1893	1484
80°	1197	974	574
85°	574	384	306

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4114 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.4	3.7
10°-20°	878.3	10.6
20°-30°	1306.3	15.7
30°-40°	1539.3	18.5
40°-50°	1560.7	18.8
50°-60°	1360.0	16.4
60°-70°	930.1	11.2
70°-80°	373.6	4.5
80°-90°	43.3	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°	2494.0	30.0
0°-40°	4033.3	48.6
0°-60°	6954.0	83.8
0°-90°	8301.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8301.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3275	3275	3275	3275	3275	
5°	3270	3250	3263	3259	3262	310
15°	3107	3093	3117	3130	3140	875
25°	2798	2799	2843	2863	2887	1288
35°	2383	2394	2459	2519	2562	1489
45°	1902	1927	2023	2114	2162	1468
55°	1392	1421	1529	1625	1656	1243
65°	860	898	971	978	975	850
75°	353	376	364	313	286	379
85°	37	33	25	22	20	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3275.2	3275.2	3275.2	3275.2	3275.2
2.5°	3285.7	3263.8	3275.2	3272.8	3264.5
5°	3269.8	3250.1	3263.0	3259.3	3261.5
7.5°	3244.1	3226.0	3239.5	3238.9	3242.5
10°	3208.6	3190.3	3207.1	3210.1	3214.6
12.5°	3161.5	3146.5	3166.9	3172.9	3182.0
15°	3107.0	3093.4	3116.8	3129.7	3139.6
17.5°	3043.4	3032.0	3062.3	3074.5	3088.1
20°	2969.9	2961.7	2997.2	3008.6	3028.3
22.5°	2888.2	2883.7	2920.7	2938.1	2960.9
25°	2798.0	2798.8	2842.7	2863.3	2887.4
27.5°	2703.4	2704.9	2755.0	2783.6	2809.4
30°	2601.2	2605.7	2660.3	2695.9	2729.9
32.5°	2492.9	2501.9	2561.0	2609.5	2647.4
35°	2383.1	2393.6	2458.9	2519.3	2562.5
37.5°	2264.2	2281.7	2355.1	2427.1	2471.6
40°	2147.6	2165.0	2247.5	2327.0	2372.5
42.5°	2027.2	2049.2	2137.0	2225.6	2269.4
45°	1901.5	1927.2	2023.4	2114.3	2162.0
47.5°	1781.0	1803.8	1905.2	2000.0	2049.2
50°	1648.5	1677.3	1782.5	1881.8	1930.3
52.5°	1522.1	1548.5	1656.8	1758.4	1802.3
55°	1391.9	1421.3	1529.0	1625.0	1656.2
57.5°	1258.5	1294.1	1397.9	1478.3	1507.7
60°	1126.1	1161.6	1259.3	1325.3	1347.2
62.5°	994.2	1032.2	1117.7	1161.6	1161.6
65°	859.5	898.1	970.8	978.3	975.3
67.5°	724.7	763.4	818.6	804.9	795.9
70°	593.7	627.0	659.6	634.5	613.4
72.5°	466.5	498.3	503.6	467.3	440.7
75°	352.8	376.4	364.2	312.8	285.5
77.5°	246.0	259.8	234.0	181.8	159.8
80°	154.5	160.5	125.7	88.5	74.1
82.5°	83.4	84.0	54.6	44.7	41.7
85°	37.2	33.3	24.9	21.9	19.8
87.5°	12.9	11.4	9.0	8.4	6.9
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	16.08	17.66	16.44	17.98	18.29	17.06	18.65	17.43	18.96	19.27
	3H	17.49	18.91	17.87	19.24	19.60	18.27	19.69	18.64	20.02	20.38
	4H	17.88	19.22	18.28	19.56	19.94	18.48	19.82	18.88	20.17	20.54
	6H	18.06	19.29	18.47	19.66	20.05	18.50	19.73	18.91	20.10	20.49
	8H	18.07	19.25	18.50	19.64	20.04	18.48	19.65	18.90	20.04	20.44
	12H	18.06	19.19	18.49	19.57	20.00	18.45	19.58	18.88	19.96	20.39
4H	2H	16.75	18.08	17.15	18.43	18.81	17.54	18.87	17.94	19.22	19.60
	3H	18.32	19.42	18.73	19.82	20.22	18.91	20.02	19.32	20.41	20.81
	4H	18.80	19.79	19.23	20.20	20.64	19.18	20.18	19.61	20.59	21.03
	6H	19.03	19.90	19.49	20.34	20.80	19.23	20.10	19.69	20.54	21.00
	8H	19.06	19.86	19.52	20.31	20.77	19.21	20.01	19.67	20.46	20.92
	12H	19.06	19.78	19.54	20.25	20.72	19.19	19.91	19.67	20.38	20.86
8H	4H	18.94	19.74	19.40	20.19	20.65	19.30	20.11	19.76	20.55	21.02
	6H	19.22	19.88	19.71	20.37	20.84	19.36	20.02	19.86	20.51	20.99
	8H	19.26	19.85	19.77	20.36	20.84	19.34	19.93	19.85	20.44	20.93
	12H	19.27	19.79	19.78	20.28	20.85	19.32	19.85	19.83	20.34	20.90
12H	4H	18.92	19.64	19.40	20.12	20.59	19.29	20.01	19.77	20.49	20.96
	6H	19.19	19.78	19.70	20.29	20.77	19.34	19.93	19.85	20.44	20.93
	8H	19.25	19.77	19.76	20.26	20.83	19.34	19.86	19.85	20.35	20.92