

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: P1498949

Luminaire Tested: MAE-G-4-120-1HI-LO-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498949
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-4-120-1HI-LO-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

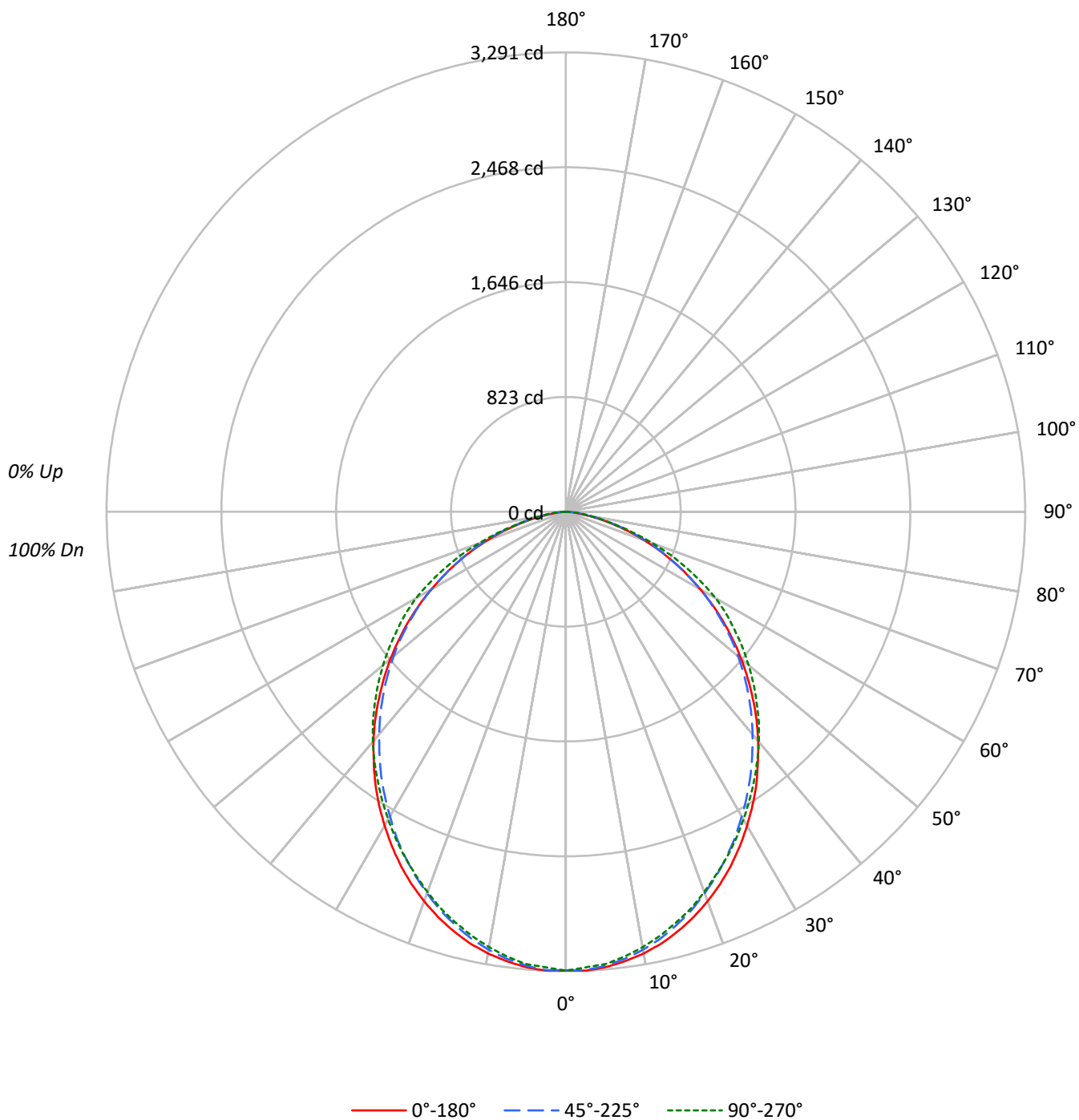
Lumens per Lamp: N/A
Luminaire Lumens: 7953.0 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 92.5
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	78	65	56	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4422	4422	4422
5°	4423	4408	4393
10°	4389	4353	4326
15°	4332	4269	4244
20°	4251	4164	4150
25°	4153	4048	4052
30°	4034	3915	3954
35°	3909	3789	3862
40°	3766	3655	3778
45°	3605	3520	3680
50°	3435	3374	3578
55°	3239	3199	3459
60°	2995	2997	3339
65°	2717	2719	3045
70°	2349	2409	2620
75°	1864	1983	2007
80°	1277	1438	1455
85°	707	1034	1286

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3680 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.9	3.9
10°-20°	864.8	10.9
20°-30°	1262.7	15.9
30°-40°	1460.2	18.4
40°-50°	1451.7	18.3
50°-60°	1247.0	15.7
60°-70°	872.4	11.0
70°-80°	404.8	5.1
80°-90°	80.6	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°	2436.4	30.6
0°-40°	3896.5	49.0
0°-60°	6595.3	82.9
0°-90°	7953.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7953.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3287	3287	3287	3287	3287	
5°	3275	3272	3264	3246	3252	311
15°	3110	3097	3064	3040	3047	876
25°	2798	2768	2726	2715	2730	1287
35°	2380	2342	2307	2325	2352	1487
45°	1894	1864	1850	1901	1934	1462
55°	1381	1353	1364	1431	1475	1233
65°	853	832	854	925	956	845
75°	359	350	381	393	386	388
85°	46	54	67	79	83	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3286.7	3286.7	3286.7	3286.7	3286.7
2.5°	3290.6	3292.8	3286.7	3264.3	3266.6
5°	3274.7	3271.5	3263.8	3245.7	3252.4
7.5°	3248.1	3244.5	3230.7	3210.3	3215.0
10°	3212.7	3205.6	3186.1	3161.3	3166.5
12.5°	3167.3	3158.8	3131.9	3105.6	3111.9
15°	3109.8	3097.2	3064.5	3039.7	3047.1
17.5°	3043.8	3031.3	2992.9	2966.4	2979.8
20°	2969.1	2951.1	2908.0	2885.3	2898.7
22.5°	2887.5	2864.1	2820.5	2801.0	2814.1
25°	2797.5	2768.4	2726.4	2714.6	2729.7
27.5°	2699.9	2668.7	2628.3	2619.7	2640.0
30°	2596.4	2563.5	2519.6	2522.9	2545.1
32.5°	2490.7	2456.4	2414.4	2426.8	2449.0
35°	2379.9	2341.9	2307.0	2324.9	2351.5
37.5°	2260.9	2225.6	2192.5	2226.2	2252.1
40°	2143.9	2107.1	2080.7	2121.6	2150.8
42.5°	2022.2	1988.0	1966.9	2012.5	2046.3
45°	1894.5	1864.2	1849.9	1900.9	1933.8
47.5°	1767.3	1736.5	1731.6	1786.7	1823.6
50°	1641.0	1612.8	1611.9	1672.3	1709.2
52.5°	1509.8	1482.2	1490.5	1552.3	1595.1
55°	1380.6	1352.6	1363.7	1431.4	1474.6
57.5°	1248.2	1228.9	1240.2	1312.3	1363.5
60°	1113.1	1093.1	1113.6	1195.4	1240.9
62.5°	982.4	962.1	981.7	1069.5	1098.0
65°	853.3	832.4	853.9	925.2	956.3
67.5°	727.3	706.6	736.2	798.4	817.1
70°	597.2	579.5	612.3	660.9	666.1
72.5°	476.6	460.6	496.8	524.2	520.9
75°	358.6	350.2	381.4	393.0	386.1
77.5°	256.0	251.5	276.3	278.9	272.5
80°	164.8	168.8	185.6	185.5	187.8
82.5°	95.6	102.6	114.6	129.5	132.0
85°	45.8	54.1	67.0	79.0	83.3
87.5°	16.1	21.6	27.5	30.2	29.5
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	15.92	17.50	16.29	17.82	18.13	16.42	18.00	16.78	18.31	18.63
	3H	17.35	18.77	17.72	19.10	19.46	17.97	19.39	18.34	19.72	20.08
	4H	17.76	19.10	18.16	19.45	19.82	18.39	19.72	18.79	20.07	20.45
	6H	17.97	19.20	18.38	19.57	19.96	18.59	19.83	19.00	20.19	20.58
	8H	18.00	19.18	18.42	19.57	19.97	18.64	19.82	19.07	20.21	20.61
	12H	18.00	19.13	18.43	19.51	19.94	18.68	19.81	19.11	20.19	20.62
4H	2H	16.47	17.80	16.87	18.15	18.53	16.87	18.21	17.27	18.56	18.94
	3H	18.07	19.18	18.48	19.58	19.98	18.62	19.73	19.03	20.13	20.53
	4H	18.57	19.57	19.00	19.99	20.42	19.14	20.14	19.57	20.56	20.99
	6H	18.85	19.72	19.31	20.17	20.62	19.43	20.30	19.89	20.74	21.20
	8H	18.90	19.72	19.36	20.16	20.63	19.51	20.32	19.97	20.77	21.23
	12H	18.92	19.65	19.40	20.13	20.60	19.57	20.30	20.05	20.78	21.25
8H	4H	18.78	19.59	19.24	20.04	20.50	19.30	20.11	19.76	20.55	21.02
	6H	19.12	19.79	19.62	20.28	20.76	19.65	20.32	20.15	20.81	21.29
	8H	19.20	19.80	19.71	20.31	20.80	19.77	20.37	20.28	20.88	21.37
	12H	19.25	19.78	19.75	20.27	20.83	19.88	20.41	20.39	20.90	21.46
12H	4H	18.78	19.51	19.26	19.99	20.46	19.29	20.02	19.78	20.50	20.97
	6H	19.13	19.73	19.64	20.24	20.73	19.65	20.25	20.16	20.76	21.25
	8H	19.25	19.78	19.75	20.27	20.83	19.81	20.34	20.32	20.83	21.39