

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: P1498829

Luminaire Tested: MAE-G-2-120-3STD-HI-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498829
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-2-120-3STD-HI-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

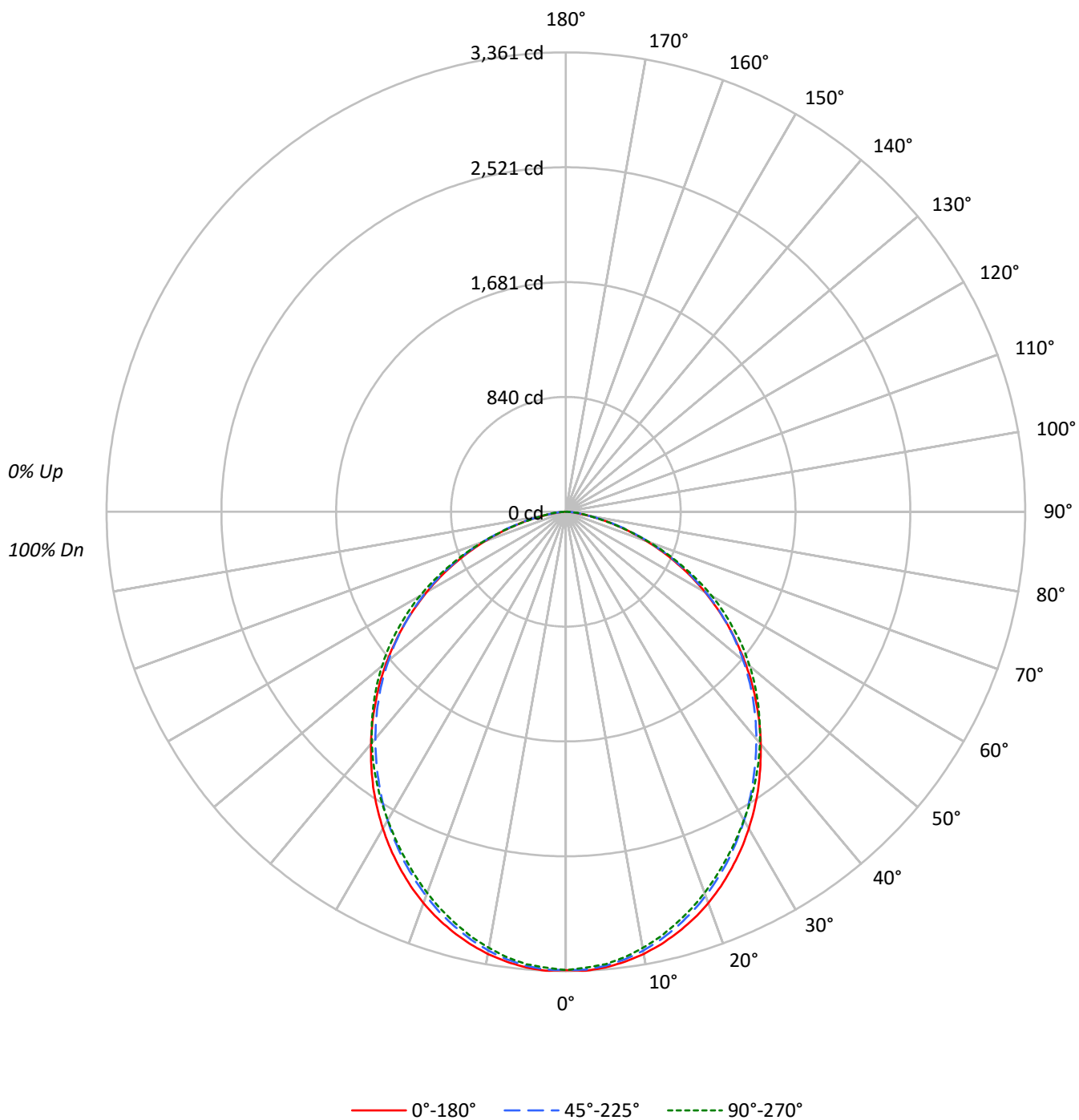
Lumens per Lamp: N/A
Luminaire Lumens: 8214.1 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 97.5
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	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	88	88	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	61
4	84	73	64	58	82	71	63	57	69	62	57	66	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	42	42	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	41	35	60	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9023	9023	9023
5°	9039	9009	8975
10°	8977	8909	8855
15°	8869	8754	8690
20°	8725	8565	8497
25°	8536	8348	8290
30°	8319	8103	8097
35°	8073	7856	7932
40°	7794	7616	7760
45°	7492	7370	7571
50°	7161	7097	7352
55°	6787	6781	7047
60°	6325	6381	6655
65°	5751	5848	5996
70°	4959	5109	5120
75°	3948	4108	3925
80°	2667	2775	2679
85°	1383	1809	2251

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7571 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.5	3.8
10°-20°	885.3	10.8
20°-30°	1297.5	15.8
30°-40°	1507.7	18.4
40°-50°	1508.3	18.4
50°-60°	1301.7	15.8
60°-70°	908.3	11.1
70°-80°	414.6	5.0
80°-90°	75.1	0.9
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°	2498.3	30.4
0°-40°	4006.1	48.8
0°-60°	6816.1	83.0
0°-90°	8214.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8214.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3353	3353	3353	3353	3353	
5°	3346	3333	3335	3318	3323	317
15°	3184	3162	3142	3115	3119	897
25°	2875	2845	2812	2783	2792	1324
35°	2458	2420	2392	2394	2415	1535
45°	1969	1939	1937	1968	1989	1519
55°	1447	1424	1445	1487	1502	1291
65°	903	894	918	937	942	893
75°	380	380	395	386	378	408
85°	45	49	59	69	73	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3353.2	3353.2	3353.2	3353.2	3353.2
2.5°	3361.2	3348.7	3353.2	3339.7	3338.3
5°	3346.3	3332.9	3335.0	3317.7	3322.6
7.5°	3320.4	3305.7	3303.3	3283.8	3288.0
10°	3285.3	3267.6	3260.3	3237.7	3240.6
12.5°	3238.6	3219.7	3206.6	3180.4	3185.1
15°	3183.6	3162.3	3142.1	3115.2	3119.2
17.5°	3119.9	3095.8	3071.2	3040.3	3047.3
20°	3046.8	3020.3	2990.9	2958.4	2967.3
22.5°	2965.0	2936.4	2903.4	2873.0	2881.5
25°	2874.8	2845.1	2811.5	2783.1	2792.0
27.5°	2780.0	2746.8	2712.0	2689.5	2699.5
30°	2677.3	2642.5	2607.9	2591.2	2605.8
32.5°	2569.0	2533.8	2501.5	2494.4	2511.5
35°	2457.5	2420.3	2391.5	2394.3	2414.6
37.5°	2337.7	2305.1	2281.0	2293.7	2314.1
40°	2218.8	2185.0	2168.0	2187.2	2209.0
42.5°	2095.8	2064.9	2053.6	2080.6	2100.6
45°	1968.7	1939.2	1936.7	1967.5	1989.4
47.5°	1843.2	1813.5	1818.1	1852.5	1876.4
50°	1710.6	1684.8	1695.2	1734.8	1756.1
52.5°	1577.9	1553.4	1571.0	1613.3	1634.5
55°	1446.7	1423.6	1445.3	1486.8	1502.1
57.5°	1310.6	1294.5	1318.2	1355.2	1371.6
60°	1175.2	1160.6	1185.6	1221.1	1236.6
62.5°	1039.5	1028.3	1053.3	1083.5	1089.8
65°	903.2	894.1	918.5	937.2	941.6
67.5°	765.1	760.5	784.5	796.8	797.7
70°	630.3	624.7	649.3	655.9	650.7
72.5°	499.5	498.5	516.8	517.8	508.4
75°	379.7	379.7	395.1	386.1	377.5
77.5°	268.3	269.4	279.3	268.7	264.1
80°	172.1	177.3	179.1	176.0	172.9
82.5°	96.7	102.8	104.1	114.2	118.6
85°	44.8	49.1	58.6	68.6	72.9
87.5°	15.2	18.8	24.2	26.1	24.4
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	18.58	20.16	18.94	20.47	20.79	18.90	20.48	19.26	20.79	21.11
	3H	20.03	21.45	20.41	21.78	22.14	20.34	21.76	20.72	22.09	22.45
	4H	20.45	21.79	20.85	22.14	22.51	20.73	22.07	21.13	22.42	22.79
	6H	20.65	21.89	21.07	22.26	22.65	20.91	22.15	21.32	22.51	22.91
	8H	20.68	21.86	21.11	22.25	22.65	20.95	22.13	21.37	22.52	22.92
	12H	20.68	21.81	21.11	22.19	22.62	20.97	22.10	21.40	22.48	22.91
4H	2H	19.15	20.49	19.55	20.84	21.21	19.41	20.75	19.81	21.10	21.47
	3H	20.78	21.89	21.19	22.29	22.69	21.04	22.15	21.45	22.55	22.95
	4H	21.29	22.29	21.72	22.70	23.14	21.52	22.52	21.95	22.94	23.38
	6H	21.57	22.44	22.02	22.88	23.34	21.78	22.65	22.23	23.09	23.55
	8H	21.61	22.42	22.07	22.86	23.33	21.83	22.65	22.29	23.09	23.56
	12H	21.62	22.35	22.10	22.83	23.30	21.87	22.60	22.36	23.08	23.55
8H	4H	21.48	22.29	21.94	22.73	23.20	21.69	22.50	22.15	22.95	23.41
	6H	21.81	22.48	22.30	22.97	23.45	22.00	22.67	22.49	23.16	23.63
	8H	21.88	22.48	22.39	22.99	23.47	22.08	22.68	22.60	23.19	23.68
	12H	21.91	22.44	22.42	22.93	23.50	22.16	22.69	22.67	23.18	23.75
12H	4H	21.47	22.20	21.95	22.68	23.15	21.69	22.41	22.17	22.89	23.36
	6H	21.81	22.41	22.32	22.92	23.40	21.99	22.59	22.50	23.10	23.59
	8H	21.91	22.44	22.42	22.93	23.49	22.11	22.64	22.62	23.14	23.70