

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: P1499144

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499144
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-LO-40-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

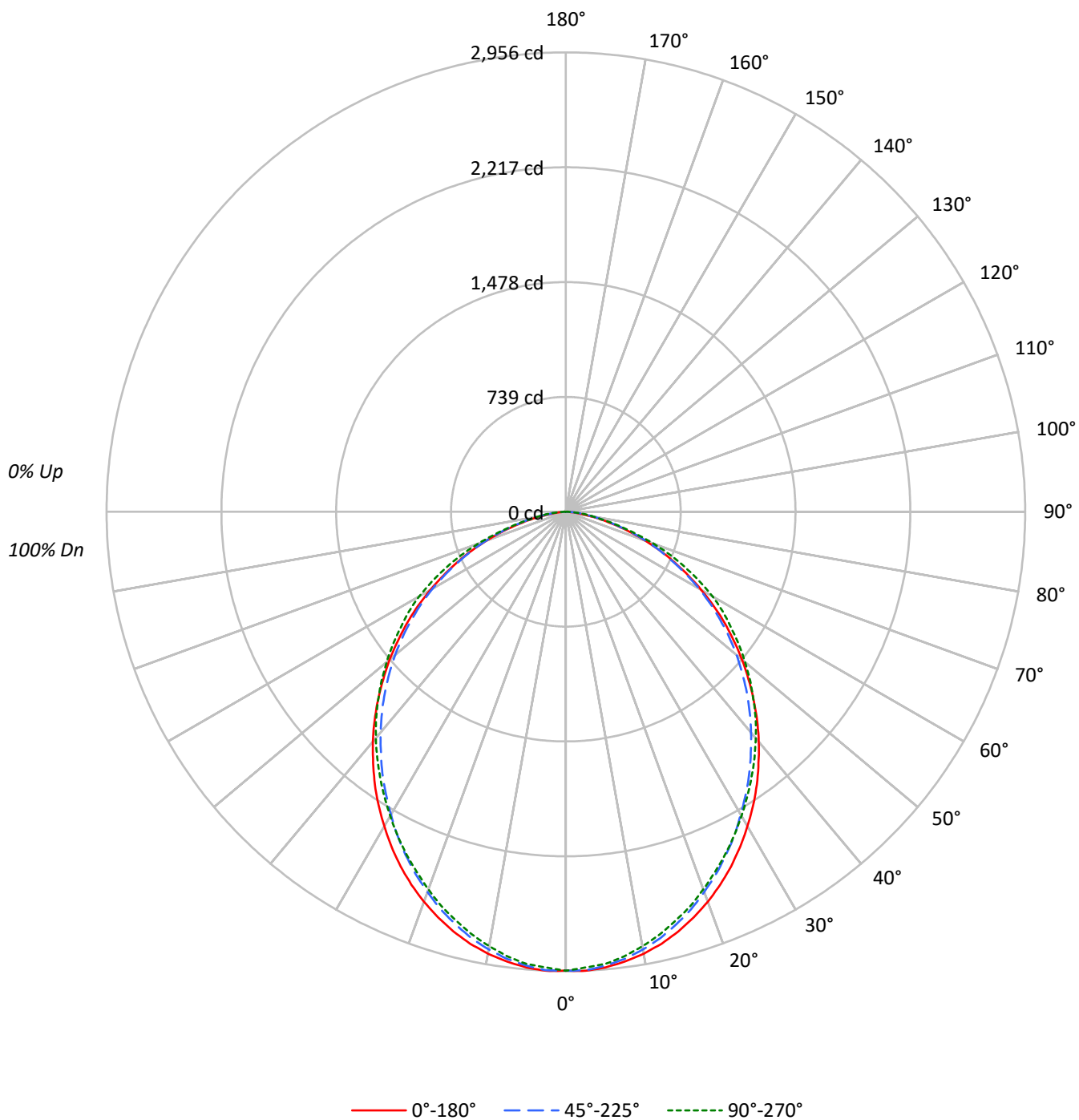
Lumens per Lamp: N/A
Luminaire Lumens: 7113.0 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 82.3
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	80	98	90	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	75	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°	3973	3973	3973
5°	3974	3960	3944
10°	3945	3908	3878
15°	3894	3827	3796
20°	3823	3728	3703
25°	3736	3619	3607
30°	3631	3496	3512
35°	3520	3380	3423
40°	3393	3257	3341
45°	3250	3134	3248
50°	3099	3001	3150
55°	2924	2844	3042
60°	2708	2663	2939
65°	2460	2421	2700
70°	2130	2157	2358
75°	1695	1801	1860
80°	1165	1342	1402
85°	647	990	1257

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3250 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.4	3.9
10°-20°	775.2	10.9
20°-30°	1129.6	15.9
30°-40°	1303.6	18.3
40°-50°	1293.7	18.2
50°-60°	1109.8	15.6
60°-70°	779.0	11.0
70°-80°	368.4	5.2
80°-90°	76.2	1.1
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°	2182.2	30.7
0°-40°	3485.8	49.0
0°-60°	5889.4	82.8
0°-90°	7113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7113.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2953	2953	2953	2953	2953	
5°	2942	2940	2932	2914	2920	279
15°	2795	2782	2748	2720	2725	788
25°	2517	2486	2438	2419	2430	1158
35°	2143	2102	2058	2064	2084	1339
45°	1708	1673	1647	1682	1707	1318
55°	1247	1214	1212	1263	1297	1113
65°	773	748	760	822	848	765
75°	326	316	346	361	358	352
85°	42	50	64	77	81	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2953.1	2953.1	2953.1	2953.1	2953.1
2.5°	2956.5	2958.7	2953.1	2932.1	2934.9
5°	2942.5	2939.8	2932.1	2914.0	2920.2
7.5°	2918.8	2915.2	2901.4	2880.5	2884.7
10°	2887.3	2880.2	2860.2	2834.4	2838.6
12.5°	2846.6	2837.6	2809.7	2781.5	2786.5
15°	2795.4	2782.3	2747.6	2719.5	2724.9
17.5°	2736.6	2722.6	2681.3	2651.0	2661.5
20°	2670.0	2650.5	2603.6	2576.2	2586.2
22.5°	2597.1	2572.2	2523.8	2498.5	2507.9
25°	2516.6	2486.1	2437.9	2418.9	2429.6
27.5°	2429.6	2396.5	2348.4	2332.2	2347.2
30°	2337.1	2301.8	2250.3	2244.0	2260.4
32.5°	2242.5	2205.3	2155.1	2156.5	2173.0
35°	2143.2	2102.3	2057.9	2064.2	2084.1
37.5°	2036.7	1998.1	1954.9	1974.7	1993.8
40°	1931.7	1891.6	1854.1	1880.1	1902.2
42.5°	1822.5	1784.4	1751.8	1782.1	1807.7
45°	1708.2	1673.2	1646.8	1682.0	1706.8
47.5°	1594.0	1558.9	1541.0	1579.7	1608.1
50°	1480.6	1447.6	1433.8	1477.4	1505.1
52.5°	1362.4	1330.5	1325.3	1370.3	1403.6
55°	1246.7	1214.3	1212.5	1262.9	1297.0
57.5°	1127.7	1103.1	1102.4	1157.7	1198.8
60°	1006.5	981.8	989.7	1054.7	1092.1
62.5°	888.8	864.2	873.3	945.1	969.8
65°	772.6	747.9	760.3	821.5	848.2
67.5°	658.6	635.1	656.5	711.9	728.7
70°	541.5	520.9	548.4	593.2	599.3
72.5°	432.4	414.5	447.4	475.2	474.3
75°	326.0	315.7	346.4	361.4	357.7
77.5°	232.9	227.5	253.7	261.1	258.1
80°	150.4	153.9	173.2	177.8	181.0
82.5°	87.4	94.4	108.8	124.7	128.1
85°	41.9	50.2	64.1	76.6	81.4
87.5°	14.7	20.2	26.5	29.2	28.5
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	15.57	17.15	15.93	17.46	17.78	15.93	17.51	16.29	17.83	18.14
	3H	17.00	18.42	17.38	18.75	19.11	17.52	18.94	17.89	19.27	19.63
	4H	17.42	18.76	17.82	19.11	19.48	17.97	19.31	18.37	19.65	20.03
	6H	17.63	18.87	18.05	19.24	19.63	18.21	19.45	18.62	19.81	20.20
	8H	17.67	18.85	18.09	19.23	19.63	18.28	19.45	18.70	19.84	20.24
	12H	17.67	18.80	18.10	19.18	19.61	18.32	19.45	18.75	19.83	20.26
4H	2H	16.10	17.44	16.50	17.79	18.16	16.40	17.73	16.80	18.08	18.46
	3H	17.72	18.83	18.13	19.23	19.63	18.18	19.30	18.59	19.70	20.10
	4H	18.22	19.22	18.65	19.64	20.08	18.74	19.75	19.17	20.16	20.60
	6H	18.51	19.38	18.97	19.83	20.28	19.08	19.95	19.53	20.39	20.85
	8H	18.56	19.38	19.03	19.82	20.29	19.17	19.99	19.63	20.43	20.90
	12H	18.58	19.31	19.06	19.79	20.26	19.25	19.98	19.73	20.45	20.92
8H	4H	18.44	19.25	18.90	19.69	20.16	18.91	19.72	19.37	20.17	20.63
	6H	18.79	19.46	19.29	19.95	20.43	19.31	19.99	19.81	20.48	20.95
	8H	18.87	19.47	19.38	19.98	20.47	19.45	20.06	19.97	20.57	21.05
	12H	18.92	19.45	19.43	19.94	20.51	19.58	20.11	20.09	20.61	21.17
12H	4H	18.44	19.17	18.93	19.65	20.12	18.91	19.64	19.39	20.11	20.58
	6H	18.80	19.41	19.31	19.92	20.40	19.31	19.92	19.83	20.43	20.91
	8H	18.92	19.46	19.43	19.95	20.51	19.50	20.03	20.01	20.52	21.08