

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: P1498550

Luminaire Tested: MAE-G-2-120-2STD-HI-50-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2STD-HI-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

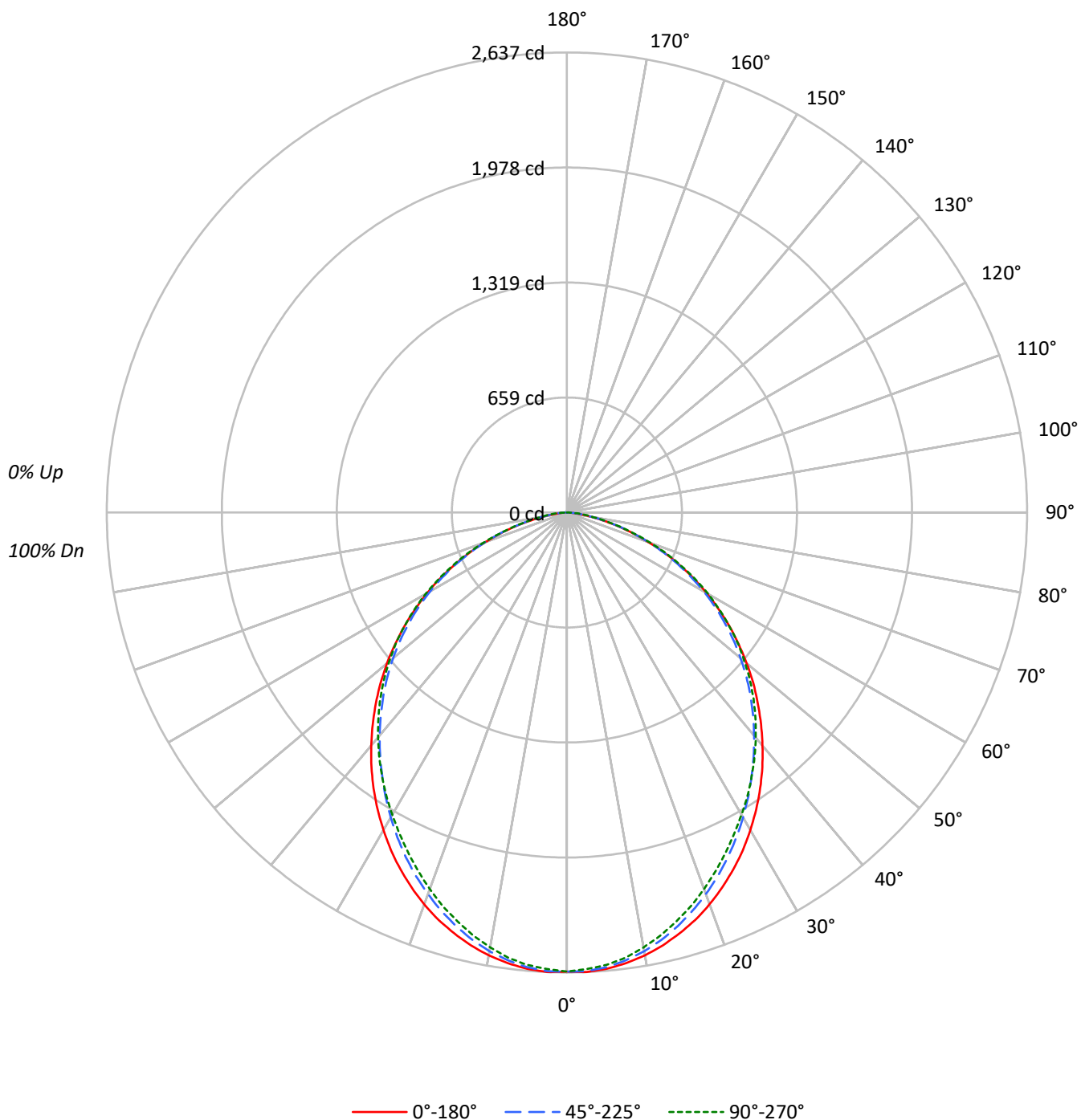
Lumens per Lamp: N/A
Luminaire Lumens: 6372.0 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 80
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	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	85	79	87	82	78		84	80	76		81
3	92	82	74	68	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	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7081	7081	7081
5°	7091	7067	7032
10°	7042	6977	6916
15°	6957	6837	6756
20°	6845	6666	6579
25°	6702	6477	6388
30°	6533	6272	6216
35°	6343	6062	6065
40°	6125	5862	5914
45°	5890	5660	5756
50°	5634	5442	5561
55°	5338	5186	5328
60°	4982	4872	5035
65°	4535	4462	4605
70°	3922	3925	4026
75°	3133	3229	3268
80°	2132	2318	2411
85°	1108	1609	2093

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5890 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.3	3.9
10°-20°	691.4	10.9
20°-30°	1008.6	15.8
30°-40°	1167.1	18.3
40°-50°	1162.5	18.2
50°-60°	999.8	15.7
60°-70°	700.3	11.0
70°-80°	330.0	5.2
80°-90°	64.9	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°	1947.4	30.6
0°-40°	3114.5	48.9
0°-60°	5276.9	82.8
0°-90°	6372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6372.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2632	2632	2632	2632	2632	
5°	2625	2616	2616	2599	2603	249
15°	2497	2479	2454	2424	2425	704
25°	2257	2228	2181	2150	2151	1039
35°	1931	1892	1845	1837	1846	1207
45°	1548	1512	1487	1500	1512	1194
55°	1138	1109	1105	1126	1136	1016
65°	712	696	701	715	723	705
75°	301	295	311	313	314	324
85°	36	41	52	63	68	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2631.5	2631.5	2631.5	2631.5	2631.5
2.5°	2636.6	2629.2	2631.5	2618.6	2618.8
5°	2625.2	2616.5	2616.2	2599.4	2603.2
7.5°	2605.1	2594.5	2589.5	2570.2	2573.5
10°	2577.3	2563.8	2553.4	2529.4	2530.9
12.5°	2541.6	2525.8	2508.7	2480.6	2483.0
15°	2497.1	2478.9	2454.3	2424.0	2424.9
17.5°	2448.1	2427.7	2394.0	2361.7	2365.3
20°	2390.3	2367.2	2327.6	2294.1	2297.5
22.5°	2326.0	2299.6	2257.8	2224.1	2225.0
25°	2257.3	2227.7	2181.3	2149.9	2151.3
27.5°	2182.8	2149.7	2101.6	2072.8	2076.1
30°	2102.6	2067.5	2018.5	1995.2	2000.4
32.5°	2018.3	1981.9	1933.7	1917.7	1926.2
35°	1930.9	1892.0	1845.2	1836.7	1846.2
37.5°	1839.7	1801.3	1757.7	1756.5	1766.3
40°	1743.5	1706.7	1668.8	1672.6	1683.5
42.5°	1646.6	1610.8	1579.0	1588.0	1599.7
45°	1547.7	1511.9	1487.2	1499.9	1512.4
47.5°	1449.0	1413.3	1395.1	1410.9	1422.1
50°	1345.7	1312.9	1299.8	1317.9	1328.4
52.5°	1240.7	1210.2	1203.4	1223.5	1237.4
55°	1137.7	1108.7	1105.4	1125.8	1135.7
57.5°	1031.5	1007.3	1006.9	1025.9	1036.1
60°	925.7	903.2	905.2	924.8	935.6
62.5°	818.8	798.5	803.6	821.7	829.9
65°	712.3	695.6	700.8	714.9	723.2
67.5°	606.9	591.7	600.1	615.3	619.2
70°	498.5	487.2	498.8	510.0	511.7
72.5°	398.3	388.2	401.6	409.2	408.9
75°	301.3	295.1	310.6	313.3	314.3
77.5°	213.0	212.8	223.9	227.0	228.5
80°	137.6	142.1	149.6	155.2	155.6
82.5°	77.7	82.9	90.8	103.4	108.2
85°	35.9	41.2	52.1	63.1	67.8
87.5°	12.1	16.1	22.0	23.8	22.7
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	17.73	19.31	18.09	19.63	19.94	17.84	19.43	18.21	19.74	20.05
	3H	19.20	20.63	19.58	20.95	21.31	19.35	20.78	19.73	21.11	21.47
	4H	19.63	20.97	20.03	21.32	21.69	19.80	21.14	20.20	21.49	21.87
	6H	19.84	21.08	20.25	21.45	21.84	20.05	21.29	20.46	21.65	22.04
	8H	19.87	21.05	20.30	21.44	21.84	20.11	21.29	20.53	21.68	22.08
	12H	19.87	21.00	20.30	21.38	21.81	20.15	21.28	20.58	21.66	22.09
4H	2H	18.27	19.61	18.67	19.96	20.34	18.37	19.70	18.76	20.05	20.43
	3H	19.92	21.04	20.33	21.44	21.84	20.07	21.18	20.48	21.58	21.98
	4H	20.44	21.44	20.87	21.86	22.29	20.61	21.62	21.05	22.03	22.47
	6H	20.73	21.60	21.19	22.05	22.50	20.95	21.82	21.40	22.26	22.72
	8H	20.78	21.59	21.24	22.04	22.50	21.03	21.85	21.49	22.29	22.76
	12H	20.79	21.52	21.27	22.00	22.47	21.10	21.83	21.58	22.31	22.78
8H	4H	20.64	21.45	21.10	21.89	22.36	20.79	21.61	21.26	22.05	22.52
	6H	20.99	21.66	21.48	22.15	22.63	21.19	21.86	21.69	22.35	22.83
	8H	21.06	21.67	21.57	22.17	22.66	21.32	21.92	21.83	22.43	22.92
	12H	21.10	21.63	21.61	22.13	22.69	21.43	21.96	21.94	22.46	23.02
12H	4H	20.64	21.37	21.12	21.85	22.32	20.79	21.52	21.27	22.00	22.47
	6H	20.99	21.60	21.50	22.11	22.59	21.19	21.80	21.70	22.30	22.79
	8H	21.10	21.64	21.61	22.13	22.69	21.36	21.89	21.87	22.38	22.95