

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: P1498349

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498349
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-2-120-2HI-HI-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

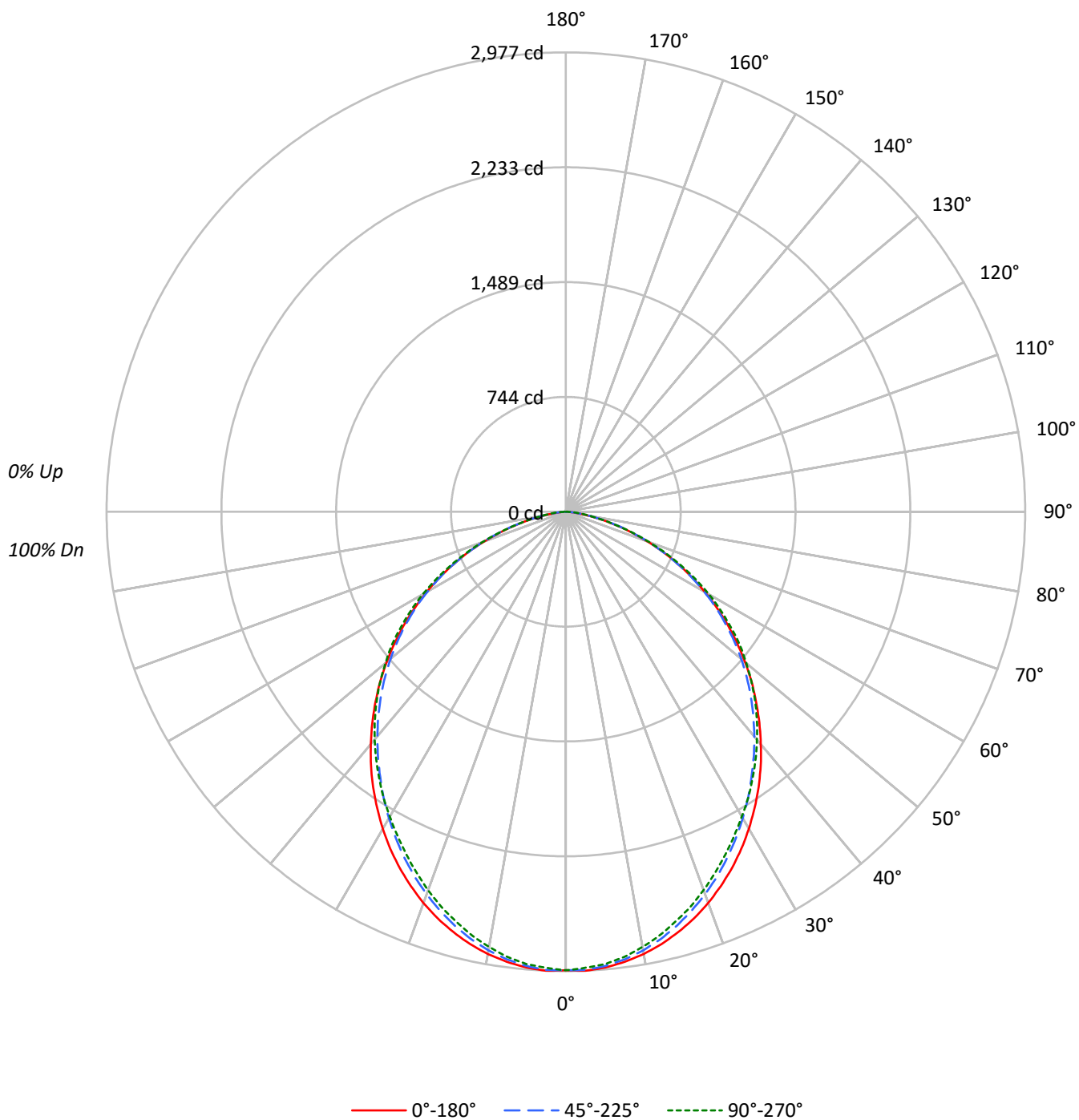
Lumens per Lamp: N/A
Luminaire Lumens: 7228.0 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 90.4
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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10		0
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	88		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	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	38		50	43	38		48	42	38		36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44	39	34		32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31		29
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38	32	28		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7996	7996	7996
5°	8007	7981	7945
10°	7951	7886	7825
15°	7854	7736	7660
20°	7726	7552	7474
25°	7564	7347	7271
30°	7371	7125	7088
35°	7155	6893	6931
40°	6906	6674	6770
45°	6640	6451	6602
50°	6348	6210	6390
55°	6013	5923	6126
60°	5610	5567	5776
65°	5102	5094	5241
70°	4406	4452	4521
75°	3512	3613	3581
80°	2379	2520	2540
85°	1226	1692	2164

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6640 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.4	3.9
10°-20°	782.3	10.8
20°-30°	1143.6	15.8
30°-40°	1326.0	18.3
40°-50°	1323.3	18.3
50°-60°	1139.7	15.8
60°-70°	795.7	11.0
70°-80°	368.4	5.1
80°-90°	69.5	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°	2205.4	30.5
0°-40°	3531.4	48.9
0°-60°	5994.4	82.9
0°-90°	7228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7228.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2971	2971	2971	2971	2971	
5°	2964	2954	2955	2937	2941	281
15°	2819	2800	2777	2748	2749	795
25°	2547	2518	2475	2445	2449	1172
35°	2178	2140	2098	2096	2110	1361
45°	1745	1711	1695	1717	1735	1346
55°	1282	1256	1262	1292	1306	1145
65°	801	788	800	814	823	793
75°	338	334	348	345	344	363
85°	40	45	55	66	70	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2971.3	2971.3	2971.3	2971.3	2971.3
2.5°	2977.2	2967.7	2971.3	2958.1	2957.4
5°	2964.3	2953.7	2954.6	2937.3	2941.3
7.5°	2941.5	2929.1	2925.6	2905.9	2909.6
10°	2909.9	2894.6	2885.9	2861.8	2863.7
12.5°	2869.4	2852.0	2836.9	2809.2	2812.2
15°	2819.1	2799.5	2777.0	2747.8	2749.4
17.5°	2763.5	2742.1	2710.8	2679.6	2684.4
20°	2697.8	2674.3	2637.3	2604.9	2610.0
22.5°	2625.1	2598.4	2559.7	2527.5	2530.2
25°	2547.4	2517.7	2474.6	2445.3	2448.7
27.5°	2463.0	2430.0	2385.9	2359.5	2365.2
30°	2372.2	2337.6	2292.9	2273.2	2281.2
32.5°	2276.7	2241.0	2197.6	2186.9	2199.0
35°	2177.9	2139.8	2098.3	2096.2	2109.7
37.5°	2074.9	2037.6	2000.0	2006.3	2020.3
40°	1966.0	1930.8	1900.0	1912.1	1927.3
42.5°	1856.5	1822.6	1798.8	1816.8	1833.2
45°	1744.7	1711.0	1695.2	1717.3	1734.9
47.5°	1633.4	1599.6	1591.0	1616.7	1632.4
50°	1516.4	1486.1	1483.3	1511.2	1526.4
52.5°	1398.3	1370.2	1373.8	1403.9	1422.8
55°	1281.7	1255.5	1262.4	1292.4	1305.8
57.5°	1161.8	1140.8	1150.4	1177.3	1190.5
60°	1042.4	1023.0	1034.4	1060.2	1073.3
62.5°	921.8	904.9	918.2	940.0	948.7
65°	801.3	788.4	800.0	814.5	823.1
67.5°	682.6	670.6	683.6	697.7	700.9
70°	560.0	552.2	565.8	574.4	574.6
72.5°	447.2	439.7	452.8	456.6	454.5
75°	337.8	333.7	347.5	345.3	344.4
77.5°	238.3	239.9	247.5	246.0	245.7
80°	153.5	158.9	162.6	164.8	163.9
82.5°	86.4	91.4	96.5	108.3	112.9
85°	39.7	44.6	54.8	65.6	70.1
87.5°	13.4	17.3	23.0	24.8	23.5
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	18.15	19.73	18.51	20.05	20.36	18.36	19.94	18.73	20.26	20.57
	3H	19.62	21.04	19.99	21.37	21.73	19.83	21.26	20.21	21.58	21.95
	4H	20.04	21.38	20.44	21.73	22.10	20.25	21.59	20.65	21.94	22.31
	6H	20.25	21.49	20.66	21.85	22.24	20.46	21.70	20.88	22.07	22.46
	8H	20.28	21.45	20.70	21.84	22.24	20.51	21.69	20.94	22.08	22.48
	12H	20.27	21.40	20.70	21.78	22.21	20.54	21.67	20.97	22.05	22.48
4H	2H	18.71	20.04	19.11	20.39	20.77	18.88	20.22	19.28	20.56	20.94
	3H	20.35	21.46	20.76	21.86	22.26	20.54	21.65	20.95	22.05	22.45
	4H	20.86	21.86	21.29	22.28	22.71	21.05	22.05	21.48	22.46	22.90
	6H	21.15	22.02	21.60	22.46	22.92	21.34	22.21	21.80	22.65	23.11
	8H	21.19	22.00	21.65	22.45	22.91	21.41	22.22	21.87	22.67	23.13
	12H	21.20	21.93	21.68	22.41	22.88	21.46	22.19	21.94	22.67	23.14
8H	4H	21.05	21.86	21.51	22.31	22.77	21.22	22.03	21.68	22.48	22.94
	6H	21.39	22.06	21.89	22.55	23.03	21.57	22.24	22.07	22.73	23.21
	8H	21.46	22.06	21.97	22.57	23.06	21.68	22.28	22.19	22.79	23.27
	12H	21.50	22.03	22.01	22.52	23.08	21.77	22.30	22.28	22.79	23.36
12H	4H	21.05	21.78	21.53	22.25	22.72	21.22	21.95	21.70	22.42	22.89
	6H	21.39	22.00	21.90	22.50	22.99	21.57	22.17	22.08	22.68	23.17
	8H	21.50	22.03	22.01	22.52	23.08	21.71	22.24	22.22	22.73	23.30