

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: P1498358

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498358
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-50-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

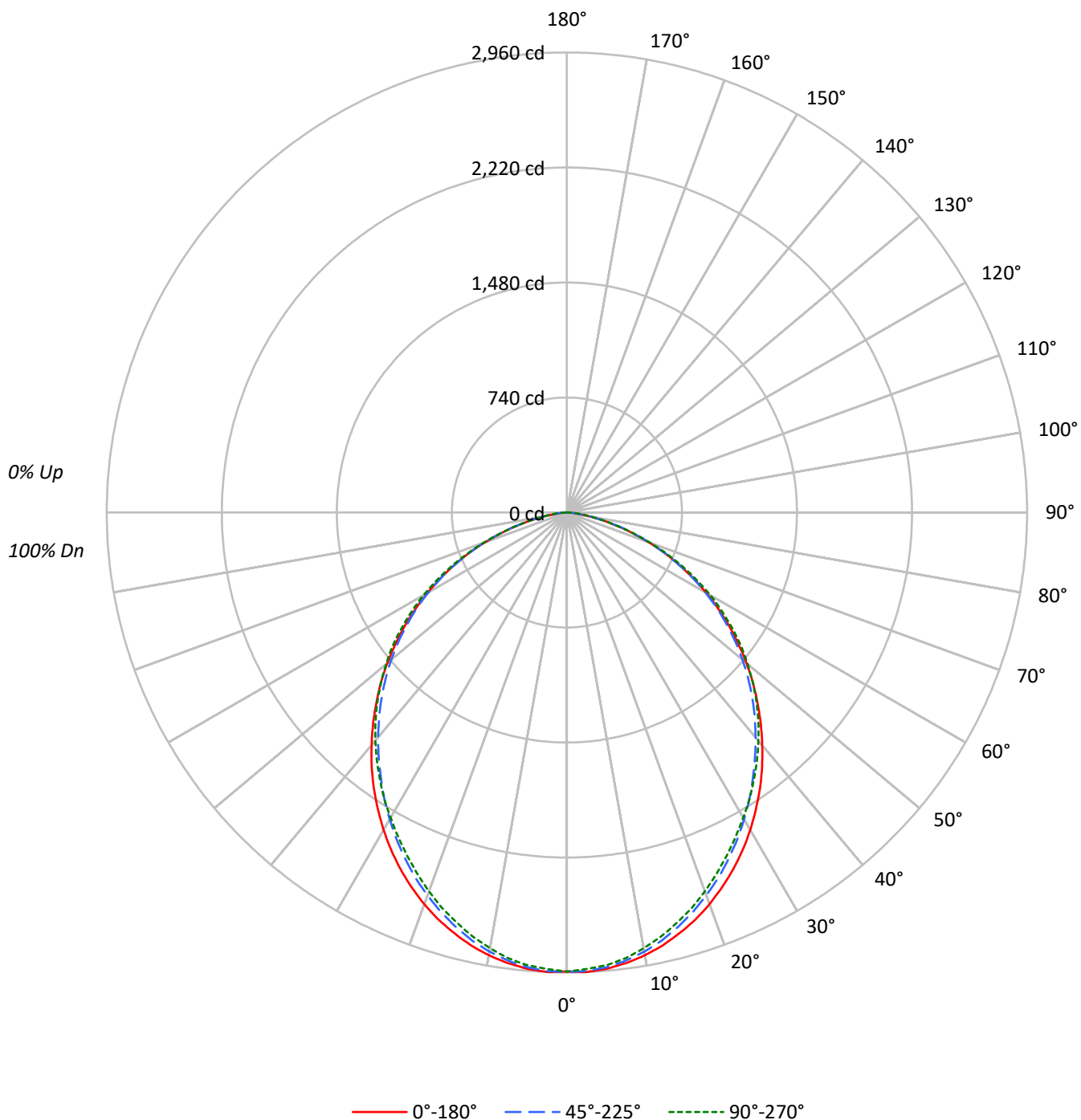
Lumens per Lamp: N/A
Luminaire Lumens: 7185.0 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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
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	81	98	91	85	80	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	57		67	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	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7948	7948	7948
5°	7960	7934	7898
10°	7904	7839	7779
15°	7807	7690	7614
20°	7680	7507	7430
25°	7519	7304	7227
30°	7327	7082	7046
35°	7112	6852	6889
40°	6865	6635	6730
45°	6600	6413	6563
50°	6311	6172	6352
55°	5978	5887	6090
60°	5577	5534	5742
65°	5072	5064	5210
70°	4380	4425	4494
75°	3491	3592	3560
80°	2366	2506	2523
85°	1216	1680	2152

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6600 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.7	3.9
10°-20°	777.7	10.8
20°-30°	1136.8	15.8
30°-40°	1318.1	18.3
40°-50°	1315.5	18.3
50°-60°	1133.0	15.8
60°-70°	791.0	11.0
70°-80°	366.2	5.1
80°-90°	69.0	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°	2192.2	30.5
0°-40°	3510.3	48.9
0°-60°	5958.8	82.9
0°-90°	7185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7185.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2954	2954	2954	2954	2954	
5°	2947	2936	2937	2920	2924	280
15°	2802	2783	2760	2731	2733	790
25°	2532	2503	2460	2431	2434	1166
35°	2165	2127	2086	2084	2097	1353
45°	1734	1701	1685	1707	1725	1338
55°	1274	1248	1255	1285	1298	1138
65°	796	784	795	810	818	788
75°	336	332	346	343	342	361
85°	39	44	54	65	70	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2953.6	2953.6	2953.6	2953.6	2953.6
2.5°	2959.6	2950.0	2953.6	2940.5	2939.8
5°	2946.6	2936.0	2937.0	2919.9	2923.7
7.5°	2924.0	2911.7	2908.1	2888.7	2892.3
10°	2892.6	2877.4	2868.7	2844.8	2846.7
12.5°	2852.4	2835.0	2820.1	2792.4	2795.5
15°	2802.2	2782.8	2760.5	2731.3	2733.0
17.5°	2747.1	2725.8	2694.6	2663.7	2668.4
20°	2681.8	2658.4	2621.6	2589.5	2594.5
22.5°	2609.5	2582.8	2544.5	2512.5	2515.1
25°	2532.2	2502.7	2459.8	2430.8	2434.0
27.5°	2448.3	2415.5	2371.6	2345.5	2351.1
30°	2358.1	2323.6	2279.3	2259.6	2267.6
32.5°	2263.1	2227.8	2184.6	2173.8	2185.9
35°	2164.9	2127.1	2085.8	2083.7	2097.1
37.5°	2062.6	2025.4	1988.1	1994.4	2008.3
40°	1954.3	1919.3	1888.7	1900.8	1915.9
42.5°	1845.4	1811.7	1788.1	1806.0	1822.4
45°	1734.2	1700.8	1685.1	1707.1	1724.6
47.5°	1623.7	1590.0	1581.6	1607.1	1622.7
50°	1507.5	1477.3	1474.4	1502.2	1517.4
52.5°	1390.0	1362.0	1365.6	1395.6	1414.4
55°	1274.1	1248.0	1254.9	1284.7	1298.0
57.5°	1154.9	1134.1	1143.5	1170.2	1183.4
60°	1036.2	1017.0	1028.2	1053.9	1066.9
62.5°	916.3	899.4	912.7	934.4	943.1
65°	796.5	783.7	795.3	809.5	818.2
67.5°	678.5	666.6	679.6	693.5	696.8
70°	556.7	549.0	562.4	571.0	571.2
72.5°	444.5	437.1	450.2	453.9	451.8
75°	335.8	331.8	345.5	343.3	342.4
77.5°	237.0	238.5	246.1	244.6	244.2
80°	152.7	157.9	161.7	163.7	162.8
82.5°	85.8	90.9	96.0	107.6	112.1
85°	39.4	44.3	54.4	65.2	69.7
87.5°	13.3	17.2	22.9	24.6	23.3
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	18.13	19.71	18.49	20.03	20.34	18.34	19.92	18.71	20.24	20.55
	3H	19.59	21.02	19.97	21.35	21.71	19.81	21.24	20.19	21.56	21.92
	4H	20.02	21.36	20.42	21.71	22.08	20.23	21.57	20.63	21.92	22.29
	6H	20.23	21.47	20.64	21.83	22.22	20.44	21.68	20.85	22.04	22.44
	8H	20.26	21.43	20.68	21.82	22.22	20.49	21.67	20.92	22.06	22.46
	12H	20.25	21.38	20.68	21.76	22.19	20.52	21.65	20.95	22.03	22.46
4H	2H	18.69	20.02	19.09	20.37	20.75	18.86	20.20	19.26	20.54	20.92
	3H	20.33	21.44	20.74	21.84	22.24	20.52	21.63	20.93	22.03	22.43
	4H	20.84	21.84	21.27	22.26	22.69	21.03	22.03	21.46	22.44	22.88
	6H	21.13	22.00	21.58	22.44	22.90	21.32	22.19	21.78	22.63	23.09
	8H	21.17	21.98	21.63	22.43	22.89	21.39	22.20	21.85	22.65	23.11
	12H	21.18	21.91	21.66	22.39	22.86	21.44	22.17	21.92	22.65	23.12
8H	4H	21.03	21.84	21.49	22.29	22.75	21.20	22.01	21.66	22.46	22.92
	6H	21.37	22.04	21.87	22.53	23.01	21.55	22.22	22.05	22.71	23.19
	8H	21.44	22.04	21.95	22.55	23.04	21.66	22.26	22.17	22.77	23.25
	12H	21.48	22.01	21.99	22.50	23.06	21.75	22.28	22.26	22.77	23.34
12H	4H	21.03	21.76	21.51	22.23	22.70	21.20	21.92	21.68	22.40	22.87
	6H	21.37	21.98	21.88	22.48	22.97	21.55	22.15	22.06	22.66	23.15
	8H	21.48	22.01	21.99	22.50	23.06	21.69	22.22	22.20	22.71	23.28