

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: P1498337

Luminaire Tested: MAE-G-2-120-2HI-HI-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498337
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-30-90-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

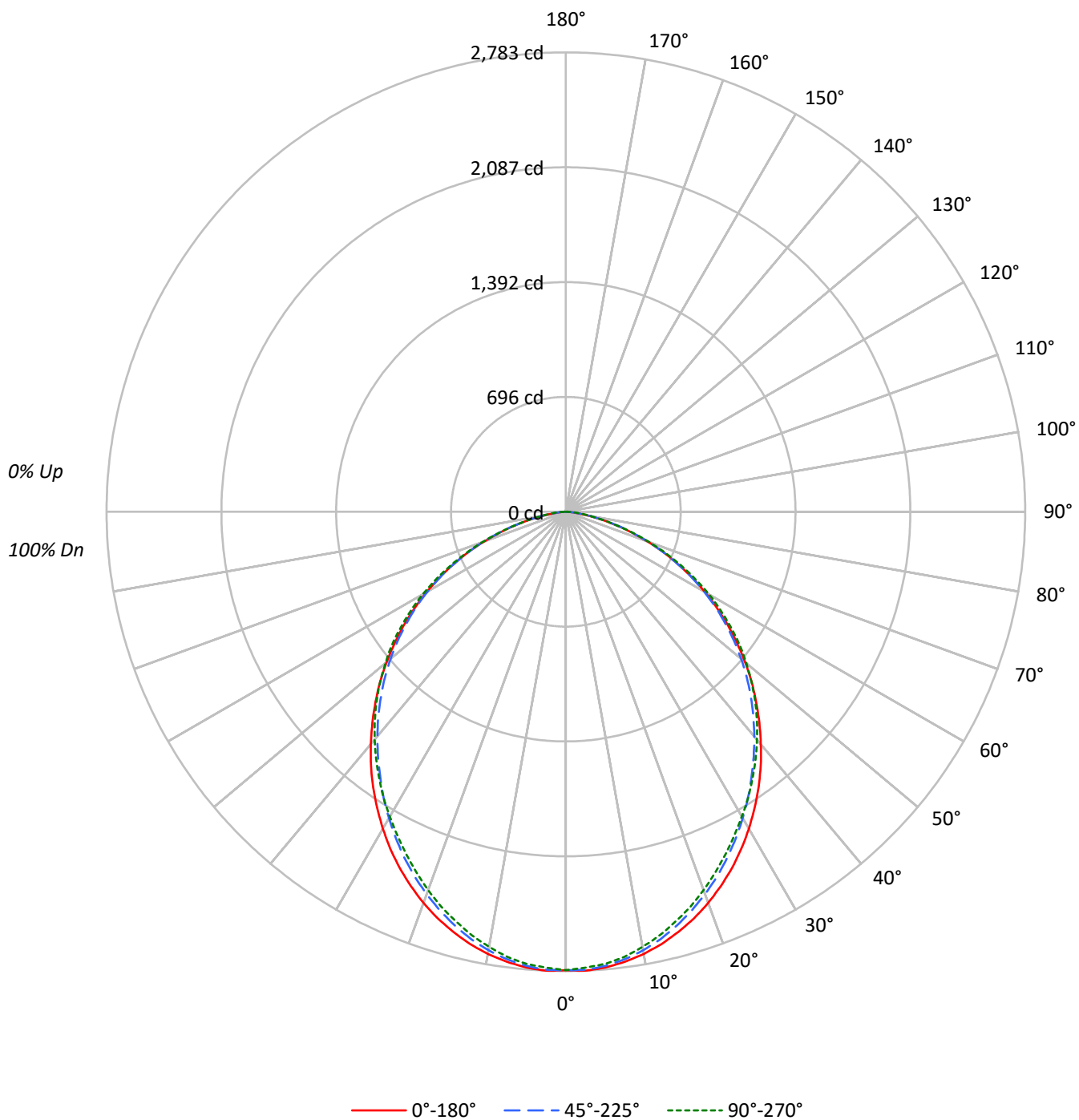
Lumens per Lamp: N/A
Luminaire Lumens: 6756.0 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1498337

CATALOG NUMBER: MAE-G-2-120-2HI-HI-30-90-WDDCPH

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	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°	7474	7474	7474
5°	7484	7460	7426
10°	7432	7371	7314
15°	7341	7231	7159
20°	7221	7059	6986
25°	7070	6868	6796
30°	6890	6659	6626
35°	6687	6443	6478
40°	6455	6239	6328
45°	6206	6030	6171
50°	5934	5804	5973
55°	5621	5536	5726
60°	5244	5203	5400
65°	4769	4762	4899
70°	4118	4161	4226
75°	3282	3377	3347
80°	2225	2356	2373
85°	1142	1581	2022

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6206 cd/sqm

TEST NUMBER: P1498337

CATALOG NUMBER: MAE-G-2-120-2HI-HI-30-90-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.2	3.9
10°-20°	731.2	10.8
20°-30°	1068.9	15.8
30°-40°	1239.4	18.3
40°-50°	1236.9	18.3
50°-60°	1065.3	15.8
60°-70°	743.7	11.0
70°-80°	344.3	5.1
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°	2061.3	30.5
0°-40°	3300.7	48.9
0°-60°	5603.0	82.9
0°-90°	6756.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6756.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2777	2777	2777	2777	2777	
5°	2771	2761	2762	2746	2749	263
15°	2635	2617	2596	2568	2570	743
25°	2381	2353	2313	2286	2289	1096
35°	2036	2000	1961	1959	1972	1272
45°	1631	1599	1584	1605	1622	1258
55°	1198	1174	1180	1208	1220	1070
65°	749	737	748	761	769	741
75°	316	312	325	323	322	340
85°	37	42	51	61	66	55
90°	0	0	0	0	0	

TEST NUMBER: P1498337

CATALOG NUMBER: MAE-G-2-120-2HI-HI-30-90-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2777.3	2777.3	2777.3	2777.3	2777.3
2.5°	2782.8	2773.9	2777.3	2765.0	2764.2
5°	2770.7	2760.8	2761.6	2745.5	2749.2
7.5°	2749.4	2737.9	2734.5	2716.2	2719.6
10°	2719.9	2705.7	2697.5	2675.0	2676.7
12.5°	2682.0	2665.8	2651.7	2625.8	2628.6
15°	2634.9	2616.7	2595.7	2568.3	2569.8
17.5°	2583.1	2563.1	2533.7	2504.6	2509.2
20°	2521.7	2499.7	2465.1	2434.8	2439.5
22.5°	2453.7	2428.7	2392.5	2362.5	2364.9
25°	2381.1	2353.3	2313.0	2285.6	2288.8
27.5°	2302.1	2271.3	2230.1	2205.5	2210.8
30°	2217.3	2184.8	2143.1	2124.7	2132.3
32.5°	2128.0	2094.7	2054.1	2044.0	2055.4
35°	2035.6	2000.1	1961.3	1959.3	1971.9
37.5°	1939.4	1904.5	1869.4	1875.2	1888.4
40°	1837.6	1804.8	1776.0	1787.3	1801.4
42.5°	1735.2	1703.6	1681.3	1698.2	1713.6
45°	1630.8	1599.3	1584.5	1605.2	1621.5
47.5°	1526.8	1495.1	1487.2	1511.1	1525.8
50°	1417.4	1389.1	1386.4	1412.5	1426.8
52.5°	1307.0	1280.7	1284.1	1312.2	1329.9
55°	1198.0	1173.5	1179.9	1208.0	1220.5
57.5°	1086.0	1066.4	1075.2	1100.3	1112.8
60°	974.4	956.3	966.8	991.0	1003.3
62.5°	861.5	845.8	858.2	878.6	886.8
65°	748.9	736.9	747.8	761.2	769.4
67.5°	638.0	626.8	638.9	652.1	655.2
70°	523.4	516.2	528.8	537.0	537.1
72.5°	418.0	411.0	423.3	426.7	424.9
75°	315.7	311.9	324.8	322.8	321.9
77.5°	222.8	224.2	231.3	230.0	229.7
80°	143.6	148.5	152.0	153.9	153.1
82.5°	80.7	85.4	90.3	101.2	105.5
85°	37.0	41.7	51.2	61.3	65.5
87.5°	12.6	16.1	21.5	23.1	21.9
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	17.92	19.50	18.28	19.81	20.13	18.13	19.71	18.49	20.02	20.34
	3H	19.38	20.81	19.76	21.13	21.49	19.60	21.02	19.98	21.35	21.71
	4H	19.81	21.14	20.21	21.49	21.87	20.02	21.36	20.42	21.70	22.08
	6H	20.01	21.25	20.43	21.62	22.01	20.23	21.47	20.64	21.83	22.22
	8H	20.04	21.22	20.47	21.61	22.01	20.28	21.46	20.70	21.84	22.24
	12H	20.04	21.17	20.47	21.55	21.98	20.30	21.43	20.73	21.82	22.24
4H	2H	18.47	19.81	18.87	20.16	20.54	18.64	19.98	19.04	20.33	20.71
	3H	20.12	21.23	20.53	21.63	22.03	20.30	21.41	20.71	21.81	22.21
	4H	20.63	21.63	21.06	22.04	22.48	20.81	21.81	21.25	22.23	22.67
	6H	20.91	21.78	21.37	22.22	22.68	21.11	21.98	21.56	22.42	22.88
	8H	20.96	21.77	21.42	22.21	22.68	21.18	21.99	21.64	22.43	22.90
	12H	20.97	21.70	21.45	22.17	22.64	21.23	21.96	21.71	22.43	22.90
8H	4H	20.81	21.63	21.28	22.07	22.54	20.99	21.80	21.45	22.24	22.71
	6H	21.16	21.83	21.65	22.32	22.80	21.34	22.01	21.83	22.50	22.97
	8H	21.23	21.83	21.74	22.34	22.83	21.44	22.04	21.95	22.55	23.04
	12H	21.26	21.79	21.77	22.29	22.85	21.54	22.07	22.04	22.56	23.12
12H	4H	20.82	21.54	21.30	22.02	22.49	20.98	21.71	21.46	22.19	22.66
	6H	21.16	21.76	21.67	22.27	22.76	21.33	21.94	21.85	22.45	22.93
	8H	21.26	21.79	21.77	22.29	22.85	21.48	22.01	21.98	22.50	23.06