

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: P1498658

Luminaire Tested: MAE-G-2-120-3HI-LO-35-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3HI-LO-35-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

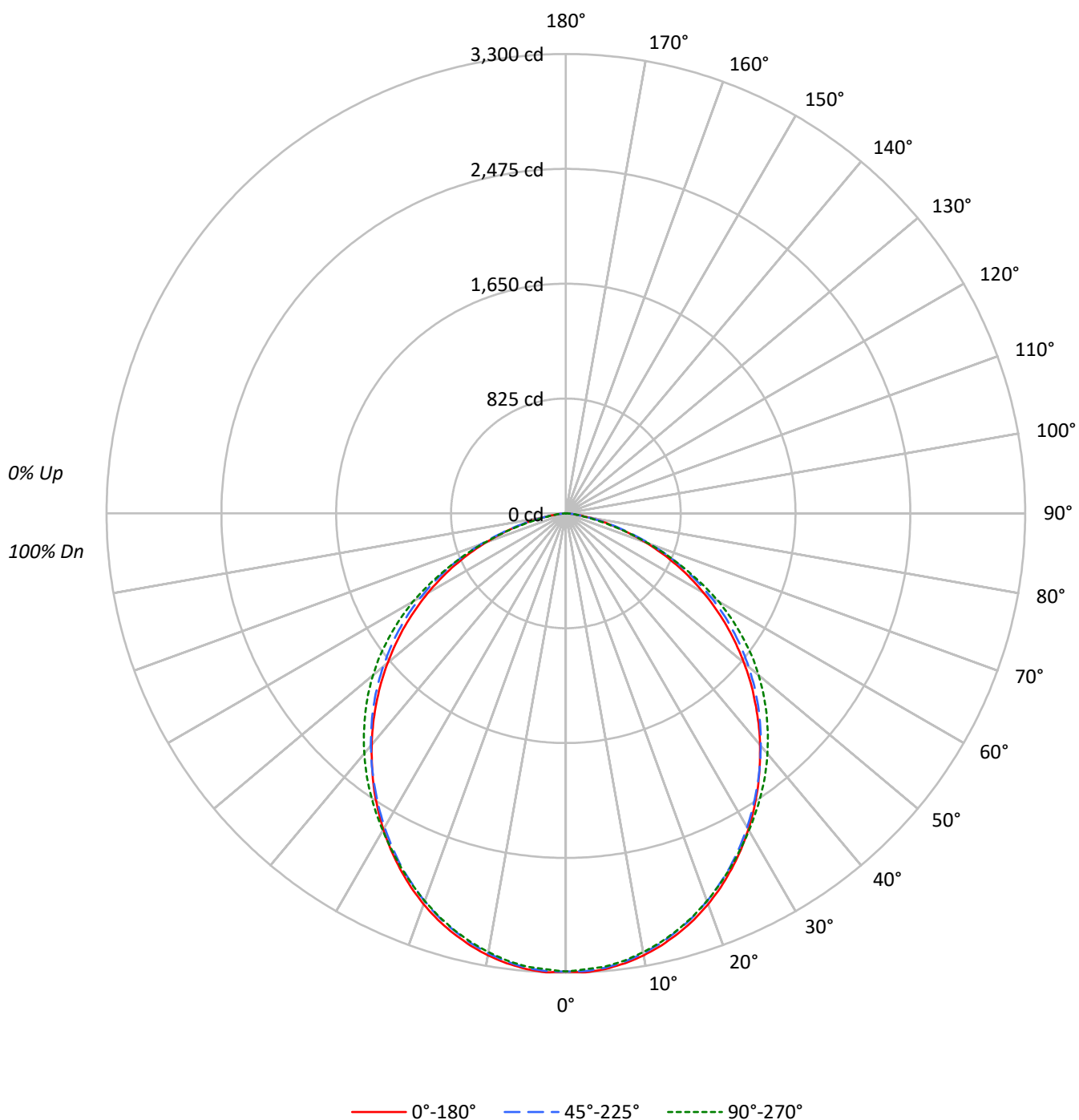
Lumens per Lamp: N/A
Luminaire Lumens: 8172.0 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 92.3
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

TEST NUMBER: P1498658

CATALOG NUMBER: MAE-G-2-120-3HI-LO-35-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	93	90	91	89	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62		
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	40		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8857	8857	8857
5°	8874	8848	8827
10°	8811	8769	8745
15°	8703	8645	8632
20°	8557	8493	8487
25°	8367	8307	8325
30°	8148	8092	8174
35°	7902	7871	8050
40°	7623	7655	7914
45°	7321	7432	7760
50°	6992	7175	7572
55°	6623	6873	7266
60°	6162	6478	6828
65°	5587	5926	6024
70°	4799	5094	4957
75°	3801	3944	3512
80°	2535	2424	2050
85°	1278	1380	1581

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7760 cd/sqm

TEST NUMBER: P1498658

CATALOG NUMBER: MAE-G-2-120-3HI-LO-35-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.2	3.8
10°-20°	874.3	10.7
20°-30°	1288.9	15.8
30°-40°	1506.2	18.4
40°-50°	1514.9	18.5
50°-60°	1312.6	16.1
60°-70°	908.4	11.1
70°-80°	394.6	4.8
80°-90°	61.9	0.8
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°	2473.4	30.3
0°-40°	3979.6	48.7
0°-60°	6807.1	83.3
0°-90°	8172.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8172.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3291	3291	3291	3291	3291	
5°	3285	3269	3276	3264	3268	312
15°	3124	3106	3103	3092	3098	880
25°	2818	2800	2798	2789	2804	1297
35°	2405	2387	2396	2421	2450	1503
45°	1924	1916	1953	2007	2039	1485
55°	1412	1410	1465	1528	1549	1260
65°	878	887	931	945	946	867
75°	366	375	379	354	338	393
85°	41	42	45	50	51	62
90°	0	0	0	0	0	

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CATALOG NUMBER: MAE-G-2-120-3HI-LO-35-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3291.3	3291.3	3291.3	3291.3	3291.3
2.5°	3300.2	3284.1	3291.3	3282.3	3278.2
5°	3285.1	3269.3	3275.6	3263.8	3267.6
7.5°	3259.4	3243.5	3247.4	3235.6	3239.5
10°	3224.5	3206.7	3209.0	3196.7	3200.2
12.5°	3178.1	3160.9	3161.2	3147.9	3154.3
15°	3123.8	3105.7	3103.0	3092.0	3098.3
17.5°	3060.7	3041.9	3039.1	3025.5	3035.1
20°	2988.2	2969.1	2965.6	2950.6	2963.8
22.5°	2907.2	2888.3	2883.2	2872.0	2886.1
25°	2817.8	2800.4	2797.6	2788.8	2803.7
27.5°	2723.9	2704.7	2703.7	2701.6	2717.7
30°	2622.3	2603.4	2604.3	2608.4	2630.6
32.5°	2515.0	2497.7	2501.8	2516.6	2541.8
35°	2405.3	2387.3	2395.9	2421.4	2450.5
37.5°	2287.0	2274.5	2289.0	2325.0	2354.8
40°	2170.1	2156.8	2179.2	2222.1	2253.0
42.5°	2049.3	2039.5	2067.5	2118.5	2147.7
45°	1923.8	1916.4	1953.0	2007.2	2039.0
47.5°	1801.5	1792.9	1835.5	1893.4	1927.2
50°	1670.2	1666.2	1713.8	1776.7	1808.6
52.5°	1541.2	1537.0	1590.3	1655.5	1685.5
55°	1411.6	1409.5	1464.9	1527.6	1548.8
57.5°	1277.8	1282.4	1337.4	1391.1	1412.6
60°	1144.9	1150.2	1203.7	1250.9	1268.7
62.5°	1011.9	1020.3	1068.9	1104.2	1107.9
65°	877.5	887.3	930.6	944.7	946.1
67.5°	742.1	754.6	790.7	792.6	789.6
70°	610.0	619.8	647.4	641.3	630.0
72.5°	481.8	493.8	506.9	493.0	477.0
75°	365.6	374.8	379.3	353.6	337.8
77.5°	257.0	263.1	258.9	232.0	220.5
80°	163.6	169.0	156.4	139.9	132.3
82.5°	90.5	94.4	83.6	85.7	87.1
85°	41.4	42.4	44.7	49.6	51.2
87.5°	14.2	15.7	18.0	18.9	17.3
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	18.51	20.09	18.87	20.41	20.72	19.10	20.68	19.46	21.00	21.31
	3H	19.94	21.37	20.32	21.69	22.06	20.44	21.86	20.82	22.19	22.55
	4H	20.35	21.69	20.75	22.04	22.42	20.76	22.09	21.16	22.44	22.82
	6H	20.55	21.78	20.96	22.15	22.54	20.86	22.10	21.27	22.46	22.85
	8H	20.57	21.75	20.99	22.14	22.53	20.87	22.04	21.29	22.43	22.83
	12H	20.56	21.69	20.99	22.07	22.50	20.86	21.99	21.29	22.37	22.80
4H	2H	19.12	20.46	19.52	20.81	21.18	19.60	20.93	20.00	21.28	21.66
	3H	20.73	21.84	21.14	22.23	22.63	21.12	22.23	21.53	22.63	23.03
	4H	21.22	22.22	21.65	22.63	23.07	21.51	22.51	21.94	22.92	23.36
	6H	21.48	22.35	21.94	22.79	23.25	21.67	22.54	22.13	22.98	23.44
	8H	21.52	22.33	21.98	22.77	23.24	21.69	22.50	22.15	22.94	23.41
	12H	21.53	22.25	22.01	22.73	23.20	21.70	22.42	22.18	22.90	23.37
8H	4H	21.39	22.20	21.85	22.64	23.11	21.66	22.47	22.12	22.91	23.38
	6H	21.70	22.37	22.20	22.86	23.34	21.85	22.52	22.35	23.01	23.49
	8H	21.76	22.36	22.27	22.86	23.35	21.89	22.48	22.40	22.99	23.48
	12H	21.78	22.31	22.29	22.80	23.37	21.92	22.44	22.43	22.94	23.50
12H	4H	21.38	22.11	21.86	22.58	23.05	21.65	22.37	22.13	22.85	23.32
	6H	21.69	22.29	22.20	22.79	23.28	21.84	22.44	22.35	22.95	23.43
	8H	21.77	22.30	22.28	22.79	23.36	21.90	22.43	22.41	22.92	23.48