

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: P1498673

Luminaire Tested: MAE-G-2-120-3HI-STD-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498673
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-STD-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

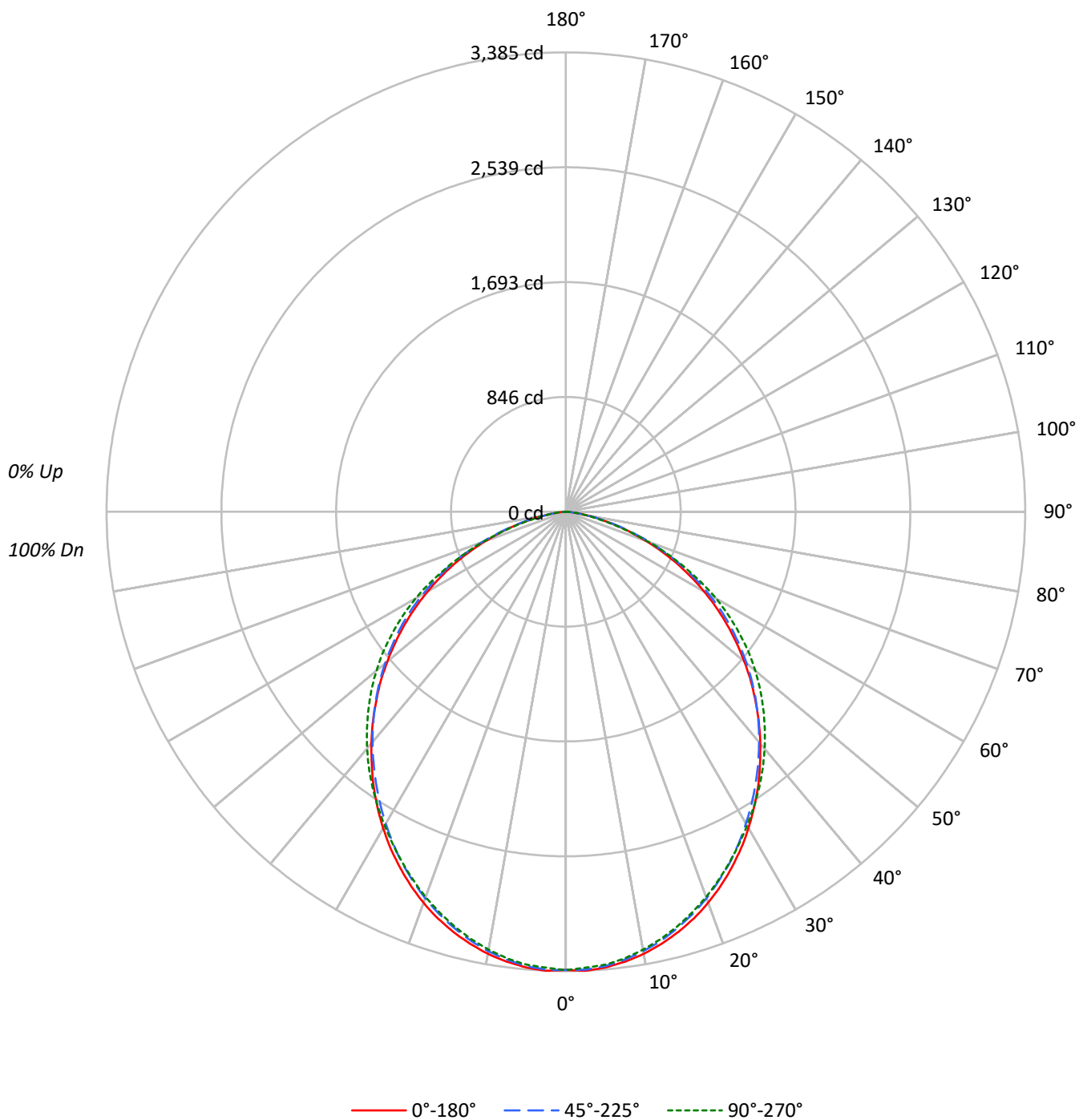
Lumens per Lamp: N/A
Luminaire Lumens: 8341.0 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 102.6
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			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	93	90		91	89	88	86
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	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	29	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9086	9086	9086
5°	9103	9075	9048
10°	9039	8987	8951
15°	8929	8848	8815
20°	8781	8679	8650
25°	8588	8478	8467
30°	8366	8248	8297
35°	8115	8012	8156
40°	7831	7783	8003
45°	7524	7548	7833
50°	7188	7279	7629
55°	6810	6967	7319
60°	6339	6562	6890
65°	5755	6007	6126
70°	4950	5194	5112
75°	3928	4080	3736
80°	2633	2602	2328
85°	1343	1568	1868

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7833 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.0	3.8
10°-20°	894.9	10.7
20°-30°	1316.3	15.8
30°-40°	1535.0	18.4
40°-50°	1540.7	18.5
50°-60°	1333.0	16.0
60°-70°	925.4	11.1
70°-80°	409.6	4.9
80°-90°	68.1	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°	2529.2	30.3
0°-40°	4064.2	48.7
0°-60°	6937.9	83.2
0°-90°	8341.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8341.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3377	3377	3377	3377	3377	
5°	3370	3355	3360	3346	3350	320
15°	3205	3186	3176	3159	3164	903
25°	2892	2870	2855	2839	2852	1332
35°	2470	2445	2439	2456	2483	1543
45°	1977	1961	1983	2030	2058	1525
55°	1452	1441	1485	1540	1560	1296
65°	904	906	943	960	962	893
75°	378	384	392	373	359	406
85°	44	46	51	58	60	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3376.6	3376.6	3376.6	3376.6	3376.6
2.5°	3385.4	3370.3	3376.6	3365.7	3362.5
5°	3370.0	3354.8	3359.7	3345.5	3349.7
7.5°	3343.8	3328.1	3329.5	3314.6	3318.7
10°	3308.1	3290.0	3288.8	3272.2	3275.6
12.5°	3260.7	3242.5	3237.7	3219.2	3225.1
15°	3205.1	3185.5	3176.0	3158.6	3164.2
17.5°	3140.7	3119.4	3108.2	3087.7	3096.6
20°	3066.5	3044.3	3030.8	3008.8	3020.6
22.5°	2983.6	2960.8	2944.8	2926.1	2938.4
25°	2892.4	2869.9	2855.3	2838.9	2851.7
27.5°	2796.4	2771.4	2757.5	2747.5	2761.6
30°	2692.5	2667.1	2654.5	2650.6	2670.3
32.5°	2582.7	2558.3	2548.5	2555.2	2577.7
35°	2470.2	2444.6	2439.0	2456.4	2482.6
37.5°	2349.2	2328.8	2328.7	2356.5	2383.2
40°	2229.3	2208.0	2215.7	2250.3	2278.3
42.5°	2105.5	2087.3	2100.9	2143.7	2169.8
45°	1977.0	1961.0	1983.3	2029.5	2058.2
47.5°	1851.3	1834.3	1863.2	1913.2	1943.8
50°	1716.9	1704.5	1738.8	1793.9	1822.4
52.5°	1584.1	1572.1	1612.7	1670.4	1697.4
55°	1451.5	1441.3	1484.9	1540.5	1560.0
57.5°	1314.3	1311.0	1355.0	1403.4	1423.3
60°	1177.9	1175.7	1219.3	1262.9	1280.2
62.5°	1041.4	1042.4	1082.9	1117.0	1121.8
65°	903.8	906.5	943.4	959.5	962.1
67.5°	764.7	770.9	803.1	809.0	807.4
70°	629.2	633.2	660.2	658.9	649.7
72.5°	497.6	504.8	520.2	511.7	497.9
75°	377.8	383.7	392.4	372.7	359.3
77.5°	266.2	270.4	271.5	250.3	241.3
80°	169.9	175.3	167.9	156.3	150.2
82.5°	94.5	99.3	93.0	98.2	100.8
85°	43.5	45.8	50.8	57.7	60.5
87.5°	14.8	17.2	20.7	22.0	20.3
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	18.60	20.18	18.96	20.50	20.81	19.09	20.67	19.45	20.99	21.30
	3H	20.04	21.46	20.42	21.79	22.15	20.47	21.89	20.84	22.22	22.58
	4H	20.45	21.79	20.85	22.14	22.52	20.81	22.15	21.21	22.50	22.87
	6H	20.65	21.89	21.06	22.25	22.64	20.94	22.18	21.35	22.54	22.93
	8H	20.68	21.85	21.10	22.24	22.64	20.96	22.14	21.38	22.53	22.93
	12H	20.67	21.80	21.10	22.18	22.61	20.96	22.09	21.39	22.47	22.90
4H	2H	19.20	20.53	19.59	20.88	21.26	19.59	20.93	19.99	21.28	21.65
	3H	20.81	21.92	21.22	22.32	22.72	21.15	22.26	21.56	22.66	23.06
	4H	21.31	22.31	21.74	22.72	23.16	21.58	22.58	22.01	22.99	23.43
	6H	21.58	22.45	22.04	22.89	23.35	21.77	22.64	22.23	23.08	23.54
	8H	21.62	22.43	22.08	22.87	23.34	21.80	22.61	22.26	23.06	23.52
	12H	21.63	22.35	22.11	22.83	23.30	21.82	22.55	22.30	23.03	23.50
8H	4H	21.49	22.30	21.95	22.74	23.21	21.73	22.54	22.19	22.99	23.45
	6H	21.81	22.47	22.30	22.96	23.44	21.97	22.64	22.46	23.13	23.60
	8H	21.87	22.47	22.38	22.97	23.46	22.02	22.62	22.53	23.13	23.61
	12H	21.90	22.42	22.41	22.92	23.48	22.07	22.60	22.58	23.09	23.65
12H	4H	21.48	22.21	21.96	22.68	23.15	21.73	22.45	22.21	22.93	23.40
	6H	21.80	22.40	22.31	22.90	23.39	21.96	22.56	22.47	23.07	23.55
	8H	21.89	22.42	22.40	22.91	23.47	22.04	22.57	22.55	23.06	23.62