

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: P1498961

Luminaire Tested: MAE-G-4-120-1HI-STD-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498961
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1HI-STD-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

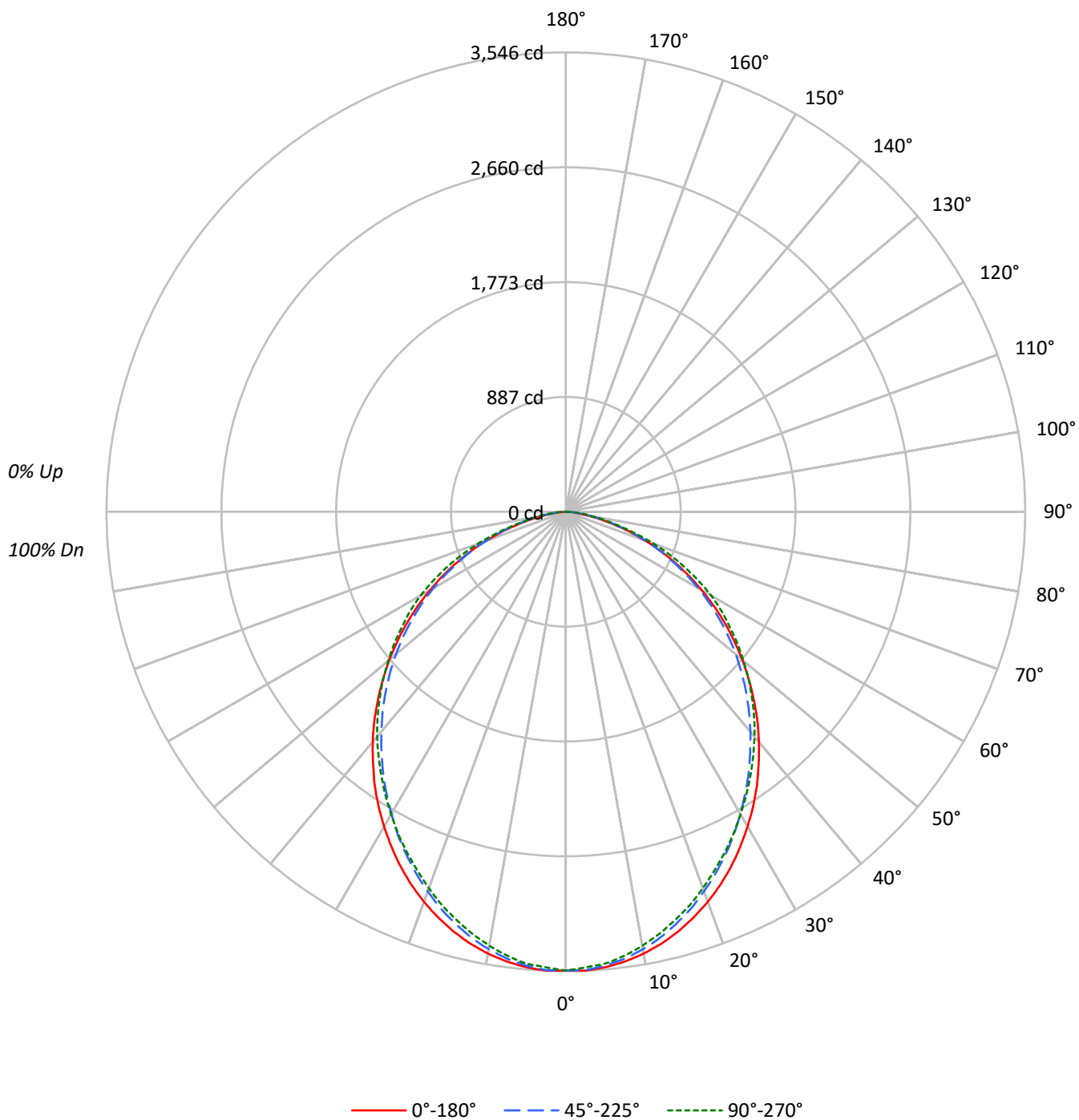
Lumens per Lamp: N/A
Luminaire Lumens: 8514.0 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 112.8
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	80	98	90	85	79	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		66	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	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4765	4765	4765
5°	4767	4749	4729
10°	4731	4685	4647
15°	4671	4586	4543
20°	4587	4464	4428
25°	4483	4332	4308
30°	4358	4182	4191
35°	4226	4041	4081
40°	4074	3892	3980
45°	3904	3743	3865
50°	3724	3584	3746
55°	3515	3396	3615
60°	3257	3179	3493
65°	2960	2891	3221
70°	2565	2584	2830
75°	2043	2169	2259
80°	1407	1634	1732
85°	783	1220	1559

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3904 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.6	3.9
10°-20°	928.9	10.9
20°-30°	1352.1	15.9
30°-40°	1559.2	18.3
40°-50°	1546.1	18.2
50°-60°	1325.6	15.6
60°-70°	931.8	10.9
70°-80°	444.3	5.2
80°-90°	93.4	1.1
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°	2613.6	30.7
0°-40°	4172.8	49.0
0°-60°	7044.5	82.7
0°-90°	8514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8514.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3542	3542	3542	3542	3542	
5°	3529	3526	3516	3494	3501	335
15°	3353	3337	3292	3256	3262	945
25°	3020	2981	2918	2891	2902	1390
35°	2573	2520	2460	2463	2485	1607
45°	2052	2006	1967	2004	2031	1583
55°	1498	1456	1448	1503	1541	1338
65°	930	897	908	980	1012	920
75°	393	379	417	438	435	424
85°	51	61	79	95	101	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3541.6	3541.6	3541.6	3541.6	3541.6
2.5°	3545.8	3548.5	3541.6	3516.1	3519.8
5°	3529.2	3525.9	3516.3	3493.6	3501.3
7.5°	3500.8	3496.4	3479.0	3452.6	3457.7
10°	3463.1	3454.3	3429.0	3396.3	3401.2
12.5°	3414.4	3403.0	3367.7	3331.4	3337.0
15°	3353.2	3336.7	3292.3	3255.5	3261.6
17.5°	3283.0	3264.9	3211.8	3172.0	3183.8
20°	3203.4	3178.4	3117.8	3081.2	3092.2
22.5°	3116.1	3084.3	3021.6	2987.2	2997.1
25°	3019.9	2981.1	2917.8	2890.6	2902.1
27.5°	2915.9	2873.5	2809.7	2785.9	2802.2
30°	2805.2	2760.0	2691.9	2679.5	2697.3
32.5°	2692.0	2644.1	2577.4	2574.1	2591.9
35°	2572.9	2520.4	2460.3	2462.9	2484.8
37.5°	2445.4	2395.5	2336.8	2355.1	2376.0
40°	2319.6	2267.7	2215.7	2241.4	2265.7
42.5°	2188.6	2139.2	2093.1	2123.9	2152.0
45°	2051.8	2005.7	1967.2	2003.9	2031.1
47.5°	1914.9	1868.9	1840.6	1881.5	1912.9
50°	1779.0	1735.4	1712.1	1758.9	1789.4
52.5°	1636.9	1595.2	1582.4	1630.8	1668.1
55°	1498.4	1455.8	1447.6	1502.7	1541.1
57.5°	1355.7	1322.4	1316.0	1377.5	1424.2
60°	1210.5	1177.3	1181.4	1255.0	1298.0
62.5°	1069.1	1036.3	1042.7	1125.3	1154.4
65°	929.8	896.9	908.2	980.2	1011.7
67.5°	792.6	761.7	784.8	851.1	871.2
70°	652.0	624.9	656.8	711.0	719.3
72.5°	520.8	497.4	537.1	572.1	572.1
75°	392.9	379.1	417.3	437.6	434.6
77.5°	280.9	273.7	307.1	318.6	316.4
80°	181.6	185.8	210.9	218.9	223.5
82.5°	105.7	114.3	133.5	153.9	158.6
85°	50.7	61.1	79.0	94.8	101.0
87.5°	17.7	24.6	32.8	36.2	35.3
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	16.21	17.79	16.57	18.10	18.42	16.51	18.09	16.88	18.41	18.72
	3H	17.64	19.07	18.02	19.40	19.76	18.11	19.54	18.49	19.87	20.23
	4H	18.07	19.40	18.47	19.75	20.13	18.58	19.92	18.98	20.27	20.64
	6H	18.28	19.52	18.69	19.88	20.28	18.84	20.08	19.25	20.44	20.83
	8H	18.31	19.49	18.74	19.88	20.28	18.91	20.09	19.34	20.48	20.88
	12H	18.32	19.45	18.75	19.83	20.26	18.96	20.09	19.39	20.47	20.90
4H	2H	16.73	18.07	17.13	18.42	18.80	16.98	18.32	17.38	18.67	19.05
	3H	18.36	19.47	18.77	19.87	20.27	18.79	19.90	19.20	20.30	20.70
	4H	18.86	19.87	19.29	20.28	20.72	19.36	20.37	19.80	20.78	21.22
	6H	19.16	20.03	19.61	20.47	20.93	19.72	20.59	20.17	21.03	21.49
	8H	19.21	20.02	19.67	20.47	20.93	19.82	20.64	20.28	21.08	21.54
	12H	19.23	19.96	19.71	20.44	20.91	19.90	20.63	20.38	21.11	21.58
8H	4H	19.08	19.90	19.54	20.34	20.81	19.53	20.35	20.00	20.79	21.26
	6H	19.44	20.11	19.93	20.60	21.08	19.96	20.63	20.46	21.12	21.60
	8H	19.52	20.13	20.03	20.63	21.12	20.11	20.72	20.62	21.22	21.71
	12H	19.57	20.10	20.08	20.60	21.16	20.25	20.78	20.76	21.27	21.84
12H	4H	19.09	19.82	19.57	20.30	20.77	19.53	20.26	20.01	20.74	21.21
	6H	19.45	20.06	19.97	20.57	21.05	19.96	20.57	20.47	21.08	21.56
	8H	19.58	20.11	20.09	20.60	21.16	20.16	20.69	20.66	21.18	21.74