

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: P1498973

Luminaire Tested: MAE-G-4-120-1HI-STD-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498973
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-40-90-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

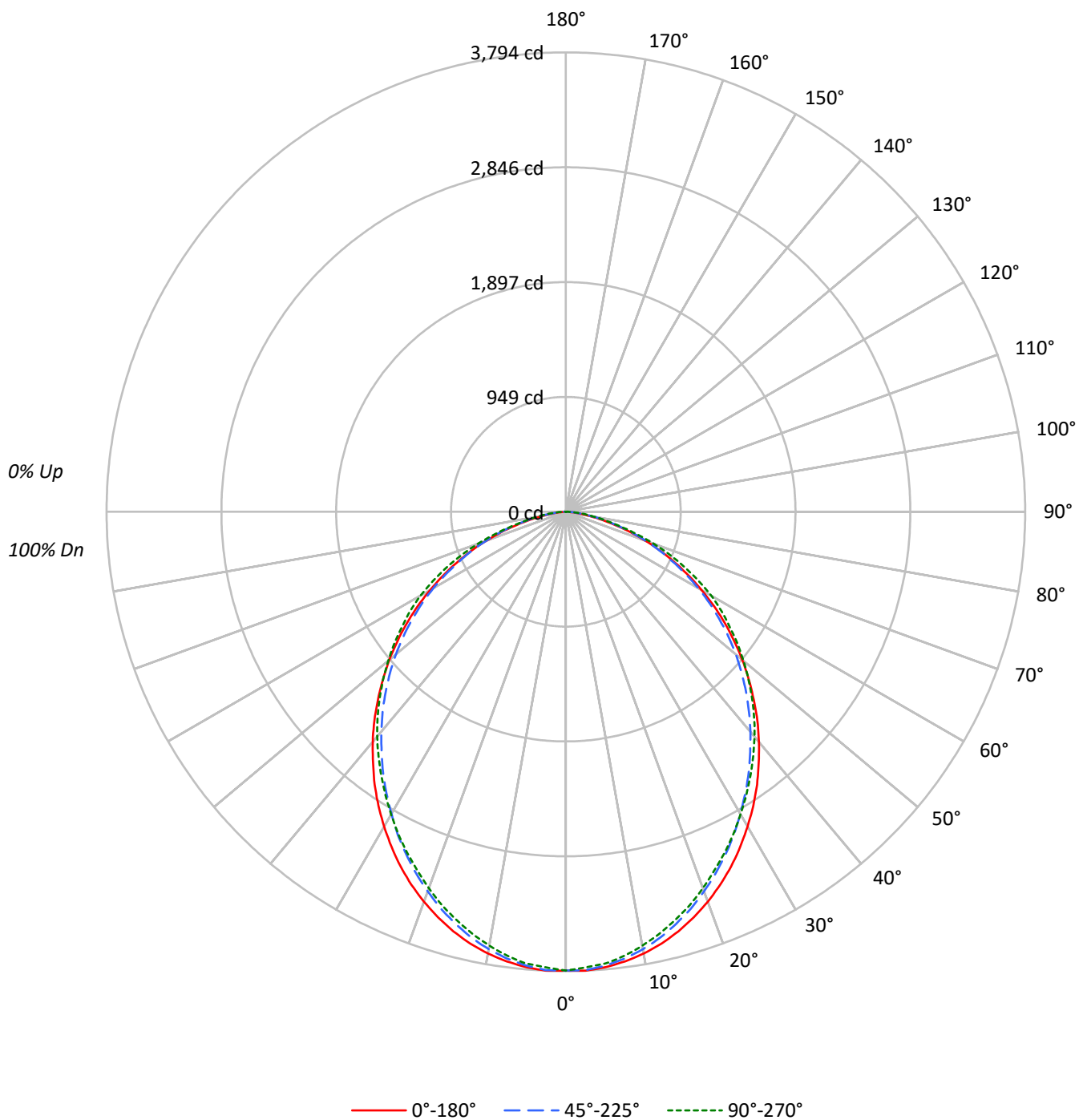
Lumens per Lamp: N/A
Luminaire Lumens: 9109.0 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	5098	5098	5098
5°	5100	5081	5059
10°	5062	5012	4972
15°	4997	4907	4861
20°	4907	4776	4737
25°	4797	4634	4609
30°	4663	4474	4484
35°	4521	4324	4367
40°	4359	4164	4258
45°	4177	4005	4135
50°	3984	3834	4007
55°	3761	3633	3868
60°	3485	3401	3737
65°	3167	3094	3446
70°	2744	2764	3027
75°	2185	2321	2418
80°	1506	1749	1853
85°	838	1304	1669

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4177 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.9	3.9
10°-20°	993.8	10.9
20°-30°	1446.6	15.9
30°-40°	1668.2	18.3
40°-50°	1654.2	18.2
50°-60°	1418.2	15.6
60°-70°	996.9	10.9
70°-80°	475.4	5.2
80°-90°	99.9	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°	2796.3	30.7
0°-40°	4464.4	49.0
0°-60°	7536.8	82.7
0°-90°	9109.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9109.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3789	3789	3789	3789	3789	
5°	3776	3772	3762	3738	3746	358
15°	3588	3570	3522	3483	3490	1011
25°	3231	3189	3122	3093	3105	1487
35°	2753	2697	2632	2635	2658	1720
45°	2195	2146	2105	2144	2173	1693
55°	1603	1558	1549	1608	1649	1431
65°	995	960	972	1049	1082	985
75°	420	406	446	468	465	454
85°	54	65	84	101	108	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3789.1	3789.1	3789.1	3789.1	3789.1
2.5°	3793.6	3796.5	3789.1	3761.8	3765.8
5°	3775.8	3772.4	3762.1	3737.8	3746.0
7.5°	3745.4	3740.6	3722.1	3693.9	3699.4
10°	3705.0	3695.6	3668.6	3633.7	3638.9
12.5°	3653.0	3640.8	3603.0	3564.3	3570.1
15°	3587.5	3569.8	3522.4	3483.0	3489.5
17.5°	3512.3	3493.0	3436.2	3393.7	3406.4
20°	3427.3	3400.6	3335.8	3296.5	3308.3
22.5°	3333.8	3299.9	3232.7	3196.0	3206.5
25°	3230.9	3189.4	3121.7	3092.6	3104.9
27.5°	3119.6	3074.3	3006.1	2980.5	2998.0
30°	3001.3	2952.8	2880.0	2866.8	2885.9
32.5°	2880.0	2828.8	2757.6	2754.0	2773.0
35°	2752.7	2696.6	2632.3	2635.0	2658.4
37.5°	2616.3	2562.9	2500.0	2519.6	2542.0
40°	2481.6	2426.2	2370.6	2398.1	2424.0
42.5°	2341.5	2288.7	2239.3	2272.2	2302.5
45°	2195.2	2145.8	2104.7	2143.9	2173.0
47.5°	2048.7	1999.5	1969.2	2013.0	2046.5
50°	1903.3	1856.7	1831.8	1881.8	1914.5
52.5°	1751.4	1706.6	1693.0	1744.8	1784.6
55°	1603.1	1557.6	1548.7	1607.7	1648.8
57.5°	1450.4	1414.8	1407.9	1473.8	1523.8
60°	1295.1	1259.5	1264.0	1342.7	1388.7
62.5°	1143.9	1108.6	1115.6	1204.0	1235.1
65°	994.8	959.6	971.7	1048.7	1082.4
67.5°	848.0	815.0	839.6	910.6	932.1
70°	697.6	668.6	702.7	760.8	769.5
72.5°	557.2	532.2	574.6	612.2	612.1
75°	420.3	405.6	446.5	468.2	465.1
77.5°	300.5	292.8	328.6	340.8	338.5
80°	194.3	198.8	225.7	234.3	239.2
82.5°	113.1	122.4	142.9	164.6	169.7
85°	54.3	65.4	84.5	101.4	108.1
87.5°	18.9	26.3	35.0	38.7	37.7
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	16.44	18.02	16.80	18.34	18.65	16.75	18.33	17.11	18.64	18.96
	3H	17.88	19.30	18.26	19.63	19.99	18.35	19.77	18.73	20.10	20.46
	4H	18.30	19.64	18.70	19.99	20.36	18.82	20.15	19.22	20.50	20.88
	6H	18.52	19.75	18.93	20.12	20.51	19.07	20.31	19.49	20.68	21.07
	8H	18.55	19.73	18.97	20.12	20.52	19.15	20.33	19.57	20.71	21.11
	12H	18.55	19.68	18.98	20.06	20.49	19.20	20.32	19.63	20.71	21.14
4H	2H	16.97	18.31	17.37	18.65	19.03	17.22	18.56	17.62	18.90	19.28
	3H	18.59	19.70	19.00	20.10	20.50	19.02	20.14	19.43	20.54	20.94
	4H	19.10	20.10	19.53	20.51	20.95	19.60	20.60	20.03	21.02	21.45
	6H	19.39	20.26	19.85	20.71	21.16	19.95	20.82	20.41	21.27	21.72
	8H	19.44	20.26	19.91	20.70	21.17	20.05	20.87	20.52	21.31	21.78
	12H	19.46	20.19	19.95	20.67	21.14	20.14	20.87	20.62	21.34	21.81
8H	4H	19.32	20.13	19.78	20.57	21.04	19.77	20.59	20.23	21.03	21.49
	6H	19.67	20.35	20.17	20.84	21.31	20.20	20.87	20.69	21.36	21.84
	8H	19.76	20.36	20.27	20.87	21.36	20.35	20.95	20.86	21.46	21.95
	12H	19.81	20.34	20.31	20.83	21.39	20.48	21.02	20.99	21.51	22.07
12H	4H	19.32	20.05	19.81	20.53	21.00	19.77	20.50	20.25	20.97	21.44
	6H	19.69	20.29	20.20	20.80	21.29	20.20	20.80	20.71	21.31	21.80
	8H	19.81	20.34	20.32	20.84	21.40	20.39	20.92	20.90	21.42	21.98