

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: P1499669

Luminaire Tested: MAE-G-4-120-3STD-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499669
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-4-120-3STD-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

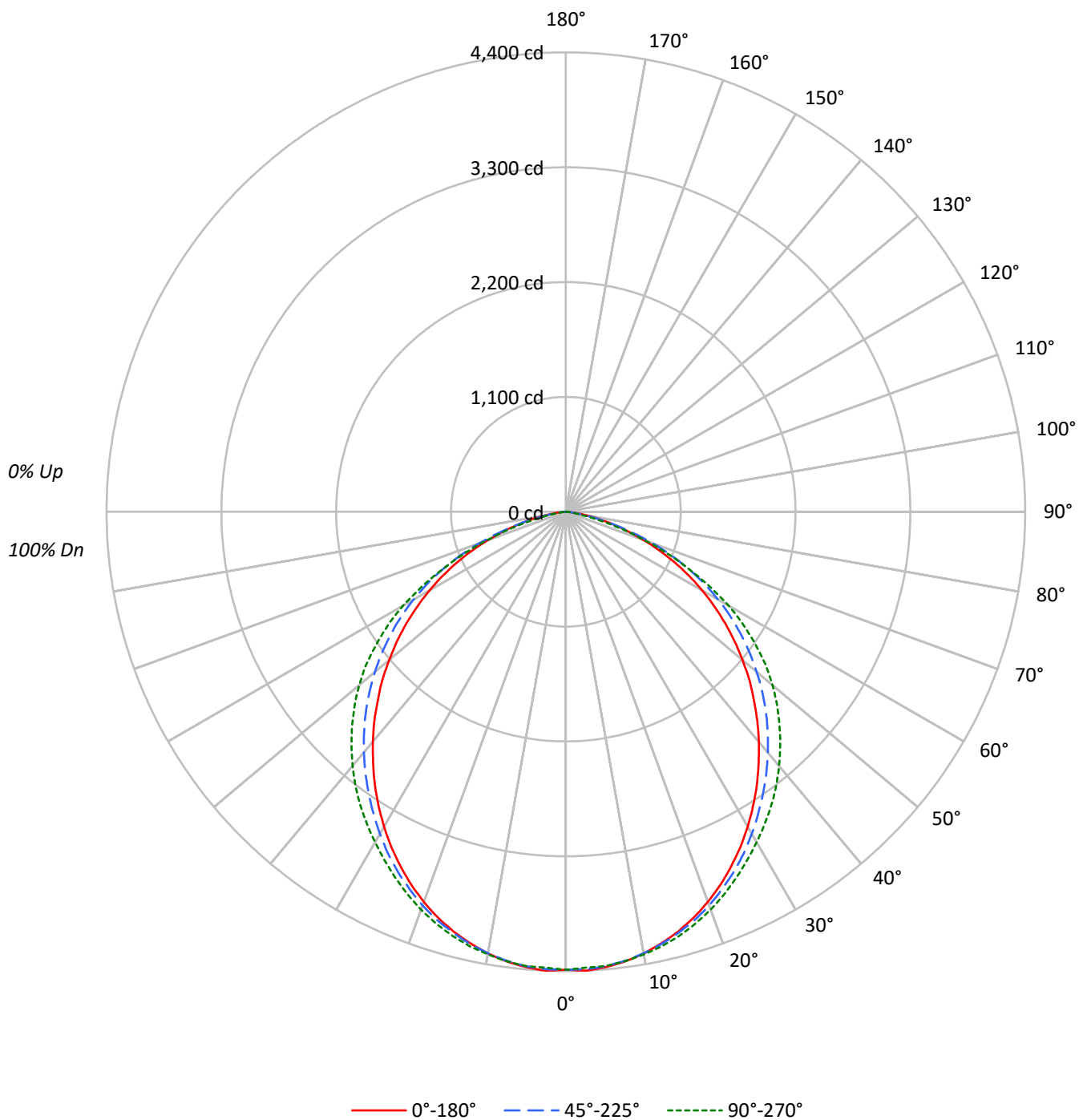
Lumens per Lamp: N/A
Luminaire Lumens: 11116.0 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 102.4
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

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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	102	98	107	103	100	96	99	96	93		95	93	91		92
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
5	78	65	56	50	76	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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	36	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5901	5901	5901
5°	5914	5902	5899
10°	5870	5867	5881
15°	5796	5814	5856
20°	5694	5747	5807
25°	5562	5651	5740
30°	5412	5535	5679
35°	5242	5409	5636
40°	5051	5286	5580
45°	4845	5156	5509
50°	4621	4996	5411
55°	4372	4803	5202
60°	4058	4538	4855
65°	3664	4139	4158
70°	3127	3475	3232
75°	2456	2535	1988
80°	1603	1304	769
85°	769	516	408

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5509 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.3	3.7
10°-20°	1176.2	10.6
20°-30°	1749.3	15.7
30°-40°	2061.3	18.5
40°-50°	2090.0	18.8
50°-60°	1821.2	16.4
60°-70°	1245.5	11.2
70°-80°	500.3	4.5
80°-90°	58.0	0.5
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°	3339.7	30.0
0°-40°	5401.1	48.6
0°-60°	9312.2	83.8
0°-90°	11116.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11116.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4386	4386	4386	4386	4386	
5°	4379	4352	4370	4365	4368	415
15°	4161	4142	4174	4191	4204	1172
25°	3747	3748	3807	3834	3866	1725
35°	3191	3205	3293	3374	3432	1994
45°	2546	2581	2710	2831	2895	1965
55°	1864	1903	2048	2176	2218	1664
65°	1151	1203	1300	1310	1306	1138
75°	472	504	488	419	382	508
85°	50	45	33	29	26	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4385.9	4385.9	4385.9	4385.9	4385.9
2.5°	4400.0	4370.6	4385.9	4382.7	4371.5
5°	4378.7	4352.2	4369.5	4364.6	4367.5
7.5°	4344.2	4320.0	4338.1	4337.2	4342.1
10°	4296.6	4272.2	4294.6	4298.7	4304.7
12.5°	4233.7	4213.5	4240.8	4248.9	4261.0
15°	4160.6	4142.4	4173.8	4191.1	4204.3
17.5°	4075.4	4060.2	4100.8	4117.1	4135.3
20°	3977.0	3966.1	4013.6	4028.8	4055.3
22.5°	3867.7	3861.6	3911.1	3934.4	3964.9
25°	3746.8	3748.0	3806.7	3834.3	3866.5
27.5°	3620.2	3622.2	3689.2	3727.6	3762.1
30°	3483.3	3489.3	3562.4	3610.1	3655.6
32.5°	3338.3	3350.4	3429.5	3494.5	3545.1
35°	3191.2	3205.3	3292.8	3373.7	3431.5
37.5°	3032.1	3055.4	3153.8	3250.2	3309.8
40°	2875.9	2899.2	3009.7	3116.1	3177.1
42.5°	2714.7	2744.1	2861.7	2980.3	3039.0
45°	2546.4	2580.7	2709.6	2831.3	2895.1
47.5°	2385.0	2415.5	2551.3	2678.2	2744.1
50°	2207.5	2246.0	2387.0	2519.9	2584.9
52.5°	2038.3	2073.7	2218.7	2354.8	2413.5
55°	1863.9	1903.3	2047.5	2176.1	2217.8
57.5°	1685.3	1733.0	1872.0	1979.6	2019.0
60°	1508.0	1555.5	1686.4	1774.7	1804.1
62.5°	1331.4	1382.2	1496.8	1555.5	1555.5
65°	1150.9	1202.7	1300.0	1310.1	1306.0
67.5°	970.5	1022.3	1096.2	1077.9	1065.8
70°	795.0	839.6	883.3	849.7	821.5
72.5°	624.7	667.2	674.4	625.8	590.1
75°	472.5	504.1	487.7	418.9	382.4
77.5°	329.5	347.9	313.3	243.4	214.0
80°	206.9	214.9	168.3	118.6	99.3
82.5°	111.6	112.5	73.1	59.8	55.8
85°	49.8	44.6	33.4	29.4	26.4
87.5°	17.3	15.2	12.1	11.2	9.2
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	17.09	18.68	17.46	18.99	19.31	18.08	19.66	18.44	19.97	20.29
	3H	18.50	19.93	18.88	20.25	20.61	19.28	20.70	19.66	21.03	21.39
	4H	18.90	20.23	19.30	20.58	20.96	19.50	20.83	19.90	21.18	21.56
	6H	19.07	20.30	19.48	20.67	21.06	19.52	20.75	19.93	21.11	21.50
	8H	19.09	20.26	19.51	20.65	21.05	19.49	20.67	19.92	21.06	21.46
	12H	19.08	20.20	19.51	20.58	21.01	19.47	20.59	19.90	20.97	21.40
4H	2H	17.76	19.10	18.16	19.45	19.82	18.56	19.89	18.95	20.24	20.61
	3H	19.33	20.44	19.74	20.84	21.24	19.92	21.03	20.33	21.43	21.83
	4H	19.81	20.80	20.24	21.22	21.66	20.20	21.19	20.63	21.61	22.04
	6H	20.05	20.91	20.51	21.35	21.81	20.25	21.11	20.70	21.55	22.01
	8H	20.07	20.88	20.54	21.32	21.79	20.22	21.03	20.69	21.47	21.94
	12H	20.07	20.79	20.55	21.27	21.74	20.20	20.92	20.69	21.40	21.87
8H	4H	19.96	20.76	20.42	21.20	21.67	20.32	21.12	20.78	21.56	22.03
	6H	20.23	20.89	20.73	21.38	21.86	20.38	21.04	20.87	21.53	22.00
	8H	20.27	20.86	20.78	21.37	21.86	20.35	20.94	20.87	21.45	21.94
	12H	20.28	20.81	20.79	21.30	21.86	20.34	20.86	20.85	21.35	21.92
12H	4H	19.94	20.66	20.42	21.13	21.60	20.30	21.02	20.79	21.50	21.97
	6H	20.20	20.79	20.71	21.30	21.79	20.35	20.95	20.86	21.45	21.94
	8H	20.27	20.79	20.78	21.28	21.84	20.35	20.87	20.86	21.37	21.93