

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: P1498736

Luminaire Tested: MAE-G-2-120-3LO-HI-40-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498736
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-2-120-3LO-HI-40-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

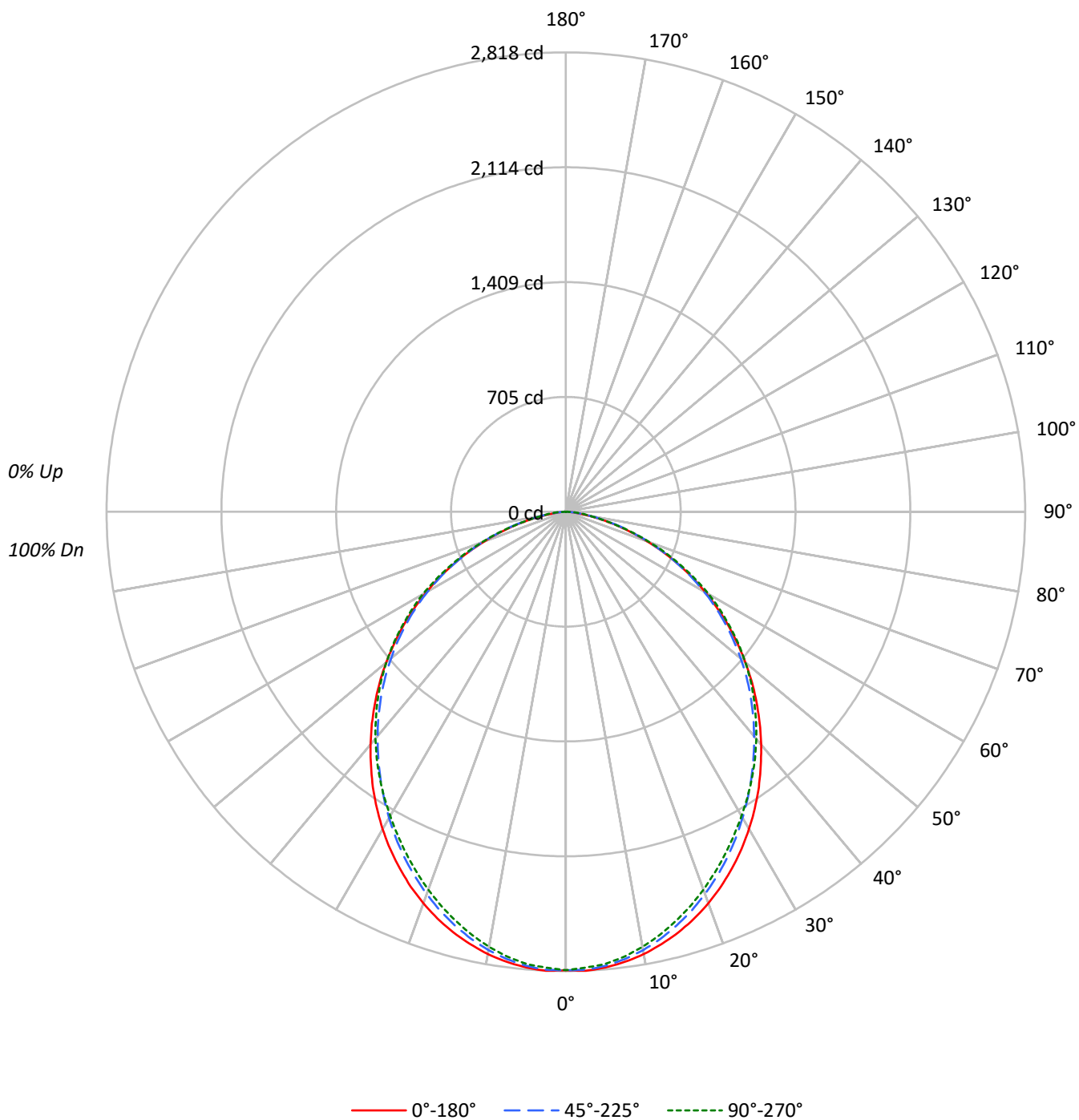
Lumens per Lamp: N/A
Luminaire Lumens: 6843.0 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 81.9
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	92	90		91	89	87	85
2	100	92	86	80	98	90	85	79	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	61
4	84	73	64	58	82	71	63	57	69	62	56		66	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	42	40
7	67	53	45	39	65	53	44	39	51	44	38		50	43	38		48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	34		46	39	34		44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7568	7568	7568
5°	7581	7553	7520
10°	7529	7461	7404
15°	7440	7319	7245
20°	7320	7147	7065
25°	7164	6954	6874
30°	6984	6738	6696
35°	6780	6522	6542
40°	6548	6312	6384
45°	6297	6099	6212
50°	6021	5864	6017
55°	5709	5596	5764
60°	5324	5261	5458
65°	4847	4828	4970
70°	4188	4252	4323
75°	3342	3482	3434
80°	2272	2453	2489
85°	1195	1680	2149

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6297 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.4	3.9
10°-20°	740.2	10.8
20°-30°	1081.8	15.8
30°-40°	1253.5	18.3
40°-50°	1250.5	18.3
50°-60°	1077.1	15.7
60°-70°	754.7	11.0
70°-80°	352.9	5.2
80°-90°	68.0	1.0
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°	2086.4	30.5
0°-40°	3339.9	48.8
0°-60°	5667.5	82.8
0°-90°	6843.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6843.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2812	2812	2812	2812	2812	
5°	2806	2796	2796	2779	2784	266
15°	2670	2651	2627	2598	2601	753
25°	2413	2383	2342	2310	2315	1111
35°	2064	2025	1985	1978	1991	1290
45°	1655	1621	1602	1618	1632	1276
55°	1217	1189	1193	1218	1228	1086
65°	761	746	758	776	780	752
75°	321	318	335	334	330	345
85°	39	44	54	65	70	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2812.3	2812.3	2812.3	2812.3	2812.3
2.5°	2818.5	2809.6	2812.3	2799.1	2799.2
5°	2806.3	2796.2	2796.1	2779.4	2783.9
7.5°	2784.6	2772.9	2768.2	2748.9	2752.5
10°	2755.3	2740.7	2730.6	2707.5	2709.7
12.5°	2716.4	2700.0	2683.6	2656.4	2659.6
15°	2670.5	2651.4	2627.3	2598.3	2600.7
17.5°	2617.2	2595.1	2565.4	2532.5	2537.3
20°	2556.3	2531.1	2495.9	2461.5	2467.2
22.5°	2488.0	2460.2	2421.0	2387.7	2392.5
25°	2412.7	2382.8	2342.0	2310.2	2315.1
27.5°	2333.5	2300.0	2257.0	2229.7	2235.5
30°	2247.7	2212.2	2168.6	2145.9	2155.0
32.5°	2157.3	2120.6	2078.5	2063.4	2074.3
35°	2063.9	2024.9	1985.4	1978.2	1991.4
37.5°	1963.7	1928.3	1892.0	1892.8	1905.9
40°	1864.1	1827.4	1796.8	1802.9	1817.2
42.5°	1761.0	1726.5	1700.7	1713.0	1725.8
45°	1654.6	1620.9	1602.5	1618.3	1632.3
47.5°	1549.0	1515.6	1503.4	1522.1	1538.0
50°	1438.3	1407.8	1400.8	1424.0	1437.3
52.5°	1326.6	1297.6	1297.4	1322.8	1336.8
55°	1216.9	1188.9	1192.8	1218.4	1228.5
57.5°	1102.8	1080.8	1087.3	1111.0	1122.5
60°	989.2	968.7	977.6	1002.2	1014.1
62.5°	875.3	857.8	868.7	891.6	897.9
65°	761.2	745.7	758.2	775.7	780.5
67.5°	645.4	634.4	649.3	663.8	666.2
70°	532.3	521.1	540.4	551.1	549.4
72.5°	422.4	416.2	433.6	440.6	435.6
75°	321.4	317.5	334.9	334.4	330.3
77.5°	227.7	226.5	240.6	238.7	237.7
80°	146.6	150.8	158.3	161.4	160.6
82.5°	82.9	88.9	95.1	106.9	111.7
85°	38.7	43.6	54.4	65.0	69.6
87.5°	13.1	16.9	22.7	24.7	23.2
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	17.97	19.55	18.33	19.86	20.18	18.15	19.73	18.51	20.05	20.36
	3H	19.43	20.85	19.80	21.18	21.54	19.65	21.07	20.02	21.40	21.76
	4H	19.85	21.19	20.25	21.54	21.92	20.08	21.42	20.48	21.77	22.14
	6H	20.07	21.30	20.48	21.67	22.06	20.30	21.54	20.71	21.91	22.30
	8H	20.09	21.27	20.52	21.66	22.06	20.36	21.54	20.78	21.93	22.33
	12H	20.09	21.22	20.52	21.61	22.03	20.39	21.52	20.82	21.90	22.33
4H	2H	18.52	19.86	18.92	20.21	20.59	18.67	20.01	19.07	20.36	20.73
	3H	20.16	21.28	20.57	21.67	22.08	20.36	21.47	20.77	21.87	22.27
	4H	20.68	21.68	21.11	22.09	22.53	20.89	21.89	21.32	22.31	22.74
	6H	20.96	21.84	21.42	22.28	22.74	21.20	22.07	21.65	22.51	22.97
	8H	21.01	21.83	21.47	22.27	22.73	21.27	22.09	21.74	22.53	23.00
	12H	21.03	21.75	21.51	22.23	22.70	21.33	22.06	21.81	22.54	23.01
8H	4H	20.87	21.69	21.34	22.13	22.60	21.07	21.88	21.53	22.32	22.79
	6H	21.22	21.89	21.72	22.38	22.86	21.44	22.11	21.93	22.60	23.08
	8H	21.29	21.90	21.81	22.40	22.89	21.55	22.15	22.06	22.66	23.15
	12H	21.33	21.86	21.84	22.36	22.92	21.65	22.19	22.16	22.68	23.24
12H	4H	20.88	21.61	21.36	22.08	22.55	21.06	21.79	21.55	22.27	22.74
	6H	21.22	21.83	21.74	22.34	22.82	21.44	22.04	21.95	22.55	23.03
	8H	21.33	21.86	21.84	22.36	22.92	21.59	22.12	22.10	22.61	23.17