

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: P1499600

Luminaire Tested: MAE-G-4-120-3LO-HI-40-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499600
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-4-120-3LO-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

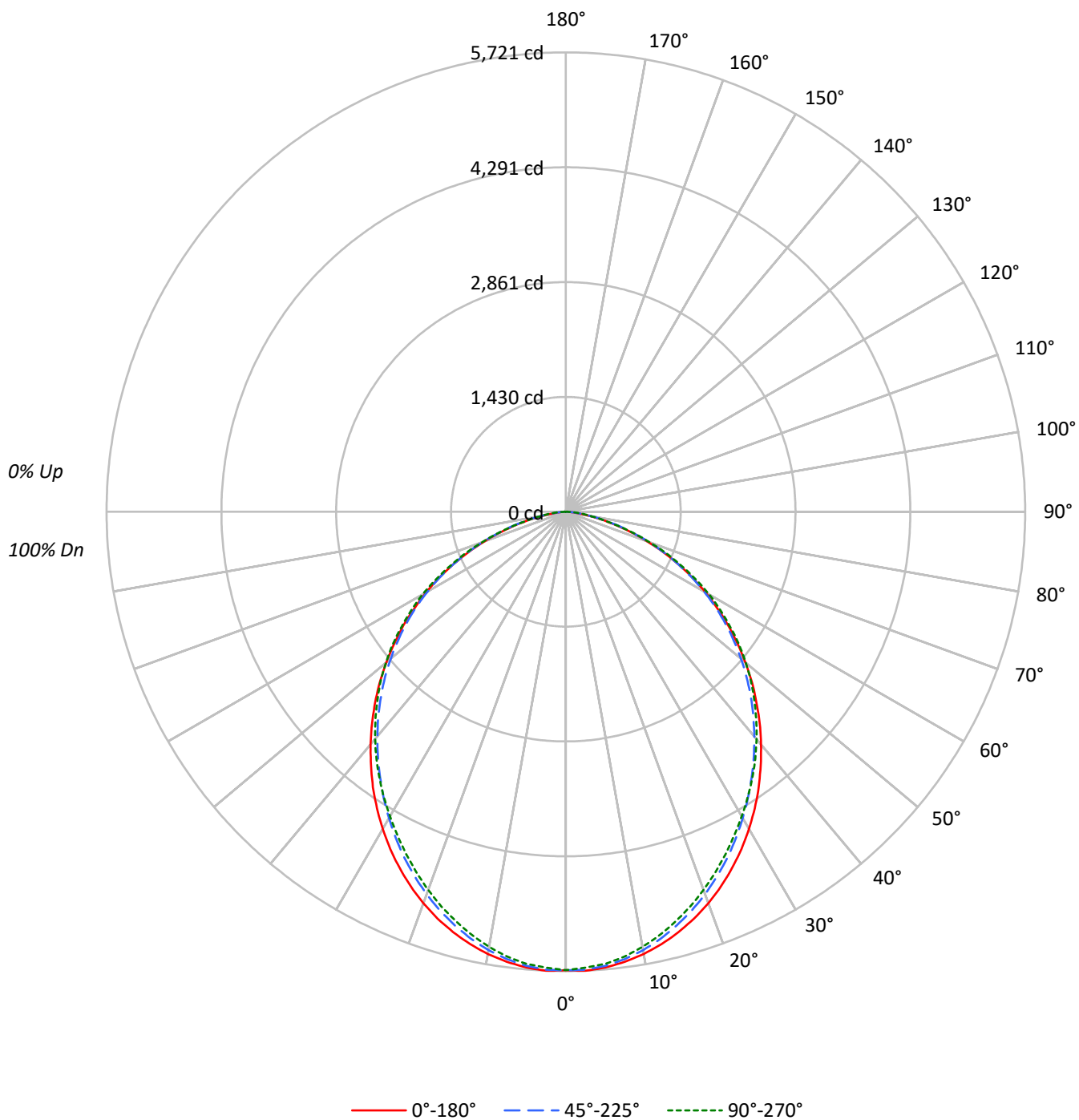
Lumens per Lamp: N/A
Luminaire Lumens: 13899.0 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 160.9
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
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	80	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	56		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	44	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7681	7681	7681
5°	7694	7666	7633
10°	7641	7574	7517
15°	7551	7431	7357
20°	7430	7258	7177
25°	7270	7062	6984
30°	7088	6844	6805
35°	6880	6626	6650
40°	6645	6413	6490
45°	6389	6198	6318
50°	6110	5960	6121
55°	5792	5689	5864
60°	5401	5349	5551
65°	4917	4907	5049
70°	4248	4319	4384
75°	3388	3531	3472
80°	2304	2477	2501
85°	1209	1689	2155

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6389 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.8	3.9
10°-20°	1502.9	10.8
20°-30°	2197.1	15.8
30°-40°	2546.5	18.3
40°-50°	2541.1	18.3
50°-60°	2189.1	15.8
60°-70°	1533.2	11.0
70°-80°	715.3	5.1
80°-90°	137.0	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°	4236.8	30.5
0°-40°	6783.3	48.8
0°-60°	11513.6	82.8
0°-90°	13899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13899.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5708	5708	5708	5708	5708	
5°	5696	5676	5676	5642	5651	540
15°	5420	5382	5334	5277	5282	1528
25°	4897	4837	4757	4694	4704	2255
35°	4189	4111	4034	4021	4049	2617
45°	3358	3291	3257	3291	3320	2590
55°	2469	2414	2425	2479	2500	2204
65°	1544	1514	1541	1576	1586	1526
75°	652	645	679	677	668	700
85°	78	88	109	130	140	115
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5708.5	5708.5	5708.5	5708.5	5708.5
2.5°	5721.3	5702.9	5708.5	5682.1	5681.9
5°	5696.3	5675.6	5675.9	5642.4	5651.4
7.5°	5652.4	5628.5	5619.3	5580.9	5588.0
10°	5592.9	5563.0	5543.5	5497.3	5501.8
12.5°	5513.8	5480.6	5448.3	5394.0	5400.9
15°	5420.5	5381.9	5334.4	5276.7	5281.8
17.5°	5312.5	5267.8	5209.3	5143.8	5153.8
20°	5188.8	5138.2	5068.7	5000.2	5012.1
22.5°	5049.8	4994.1	4916.8	4851.0	4861.2
25°	4897.0	4837.3	4756.8	4693.9	4704.4
27.5°	4736.1	4669.2	4584.6	4531.0	4543.2
30°	4562.0	4491.1	4405.4	4361.1	4380.2
32.5°	4378.3	4305.3	4222.9	4193.7	4216.7
35°	4188.8	4111.2	4034.0	4021.2	4048.6
37.5°	3985.4	3915.1	3844.4	3848.1	3875.4
40°	3783.2	3710.3	3651.3	3665.7	3695.3
42.5°	3573.8	3505.5	3456.3	3483.4	3510.0
45°	3357.8	3291.2	3257.2	3291.1	3320.4
47.5°	3143.7	3077.5	3055.8	3095.8	3128.9
50°	2918.9	2858.6	2847.3	2896.4	2924.4
52.5°	2692.1	2635.0	2637.3	2691.0	2720.0
55°	2469.3	2414.2	2425.0	2478.6	2499.8
57.5°	2237.8	2194.7	2210.4	2260.0	2283.9
60°	2007.2	1967.3	1987.6	2038.7	2062.9
62.5°	1775.9	1742.1	1766.0	1813.2	1825.8
65°	1544.4	1514.4	1541.4	1576.4	1586.0
67.5°	1309.2	1288.3	1319.6	1348.3	1352.9
70°	1079.8	1058.4	1097.8	1118.3	1114.4
72.5°	856.7	845.2	880.2	893.1	882.4
75°	651.7	644.6	679.3	676.8	667.9
77.5°	461.7	459.6	487.3	482.0	479.4
80°	297.3	305.5	319.7	324.9	322.8
82.5°	167.9	179.9	191.6	214.7	224.3
85°	78.3	88.0	109.4	130.4	139.6
87.5°	26.5	34.1	45.6	49.5	46.8
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	18.02	19.60	18.38	19.91	20.23	18.21	19.80	18.58	20.11	20.42
	3H	19.48	20.90	19.85	21.23	21.59	19.71	21.13	20.08	21.46	21.82
	4H	19.90	21.24	20.30	21.59	21.97	20.13	21.47	20.53	21.82	22.20
	6H	20.11	21.35	20.53	21.72	22.11	20.35	21.59	20.77	21.96	22.35
	8H	20.14	21.32	20.57	21.71	22.11	20.41	21.59	20.83	21.97	22.37
	12H	20.14	21.27	20.57	21.65	22.08	20.44	21.57	20.87	21.95	22.38
4H	2H	18.58	19.91	18.97	20.26	20.64	18.73	20.07	19.13	20.42	20.80
	3H	20.21	21.33	20.62	21.73	22.13	20.42	21.53	20.83	21.93	22.33
	4H	20.73	21.73	21.16	22.14	22.58	20.94	21.94	21.37	22.36	22.80
	6H	21.02	21.89	21.47	22.33	22.79	21.24	22.12	21.70	22.56	23.02
	8H	21.06	21.88	21.52	22.32	22.78	21.32	22.13	21.78	22.58	23.04
	12H	21.08	21.80	21.56	22.28	22.75	21.38	22.11	21.86	22.58	23.05
8H	4H	20.92	21.74	21.39	22.18	22.65	21.12	21.93	21.58	22.38	22.84
	6H	21.27	21.94	21.76	22.43	22.91	21.48	22.16	21.98	22.65	23.12
	8H	21.34	21.94	21.85	22.45	22.94	21.60	22.20	22.11	22.71	23.19
	12H	21.38	21.91	21.89	22.40	22.97	21.70	22.23	22.20	22.72	23.28
12H	4H	20.93	21.65	21.41	22.13	22.60	21.12	21.85	21.60	22.32	22.79
	6H	21.27	21.88	21.78	22.38	22.87	21.48	22.08	21.99	22.59	23.08
	8H	21.38	21.91	21.89	22.40	22.97	21.63	22.16	22.14	22.65	23.22