

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: P1499624

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499624
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-LO-40-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

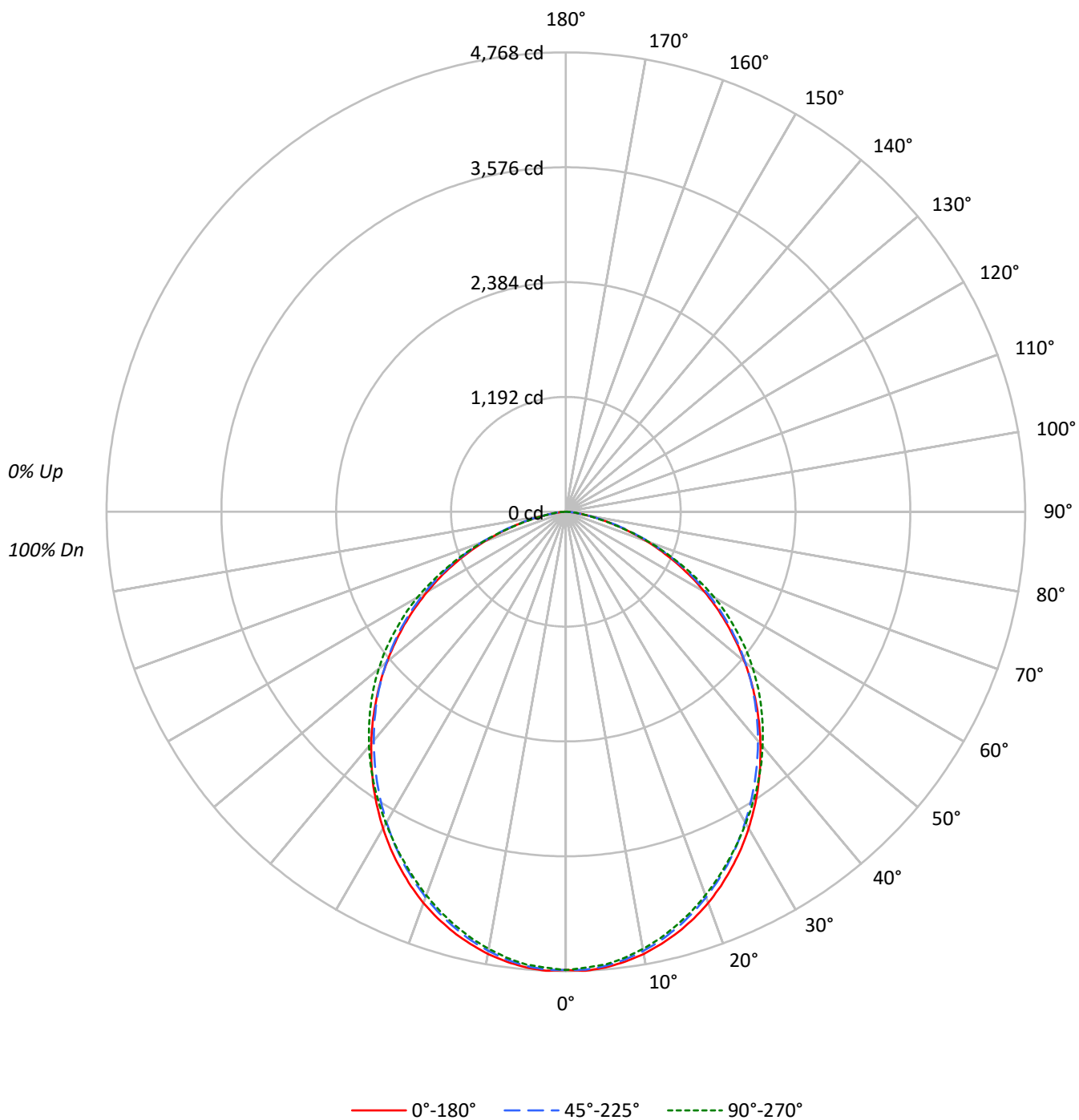
Lumens per Lamp: N/A
Luminaire Lumens: 11709.0 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 120.2
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	88	88	86
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6400	6400	6400
5°	6411	6391	6370
10°	6367	6325	6294
15°	6290	6222	6190
20°	6187	6097	6065
25°	6051	5950	5929
30°	5896	5784	5802
35°	5720	5614	5695
40°	5521	5449	5582
45°	5305	5279	5456
50°	5070	5088	5307
55°	4804	4866	5090
60°	4474	4582	4798
65°	4064	4197	4289
70°	3500	3644	3613
75°	2780	2890	2694
80°	1870	1889	1747
85°	960	1178	1431

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5456 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.8	3.8
10°-20°	1258.6	10.7
20°-30°	1848.6	15.8
30°-40°	2152.5	18.4
40°-50°	2157.6	18.4
50°-60°	1864.7	15.9
60°-70°	1297.3	11.1
70°-80°	581.6	5.0
80°-90°	100.3	0.9
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°	3555.0	30.4
0°-40°	5707.5	48.7
0°-60°	9729.8	83.1
0°-90°	11709.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11709.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4757	4757	4757	4757	4757	
5°	4747	4727	4732	4710	4716	450
15°	4515	4487	4467	4437	4444	1272
25°	4076	4040	4008	3978	3994	1877
35°	3482	3439	3418	3434	3467	2176
45°	2788	2758	2774	2831	2867	2151
55°	2048	2026	2074	2145	2170	1828
65°	1276	1273	1318	1342	1347	1261
75°	535	540	556	534	518	574
85°	62	67	76	88	93	92
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4756.6	4756.6	4756.6	4756.6	4756.6
2.5°	4768.4	4748.7	4756.6	4739.6	4736.2
5°	4747.0	4726.7	4731.9	4710.1	4716.4
7.5°	4710.3	4688.6	4688.3	4664.7	4670.4
10°	4660.2	4634.8	4629.5	4602.5	4607.0
12.5°	4593.6	4567.5	4555.8	4525.1	4532.8
15°	4515.4	4486.6	4466.9	4436.8	4443.7
17.5°	4424.8	4393.1	4369.4	4334.3	4345.7
20°	4320.7	4286.7	4258.3	4221.1	4236.0
22.5°	4204.2	4168.5	4135.9	4102.6	4117.8
25°	4075.9	4039.8	4008.0	3977.8	3993.6
27.5°	3940.9	3900.8	3868.9	3847.4	3864.9
30°	3794.9	3753.5	3722.7	3709.6	3734.6
32.5°	3640.7	3599.8	3572.7	3573.9	3602.8
35°	3482.4	3439.3	3417.8	3433.7	3467.2
37.5°	3312.0	3276.1	3261.8	3292.2	3326.2
40°	3143.4	3105.8	3102.1	3142.0	3177.8
42.5°	2968.8	2935.8	2940.2	2991.3	3024.7
45°	2788.1	2757.6	2774.5	2830.7	2867.2
47.5°	2610.6	2579.2	2605.6	2667.1	2706.5
50°	2421.9	2396.5	2430.7	2499.5	2535.5
52.5°	2234.4	2209.9	2253.7	2326.2	2361.0
55°	2047.8	2025.8	2074.5	2144.7	2169.7
57.5°	1854.7	1842.4	1892.6	1954.2	1980.2
60°	1662.5	1652.1	1702.7	1759.6	1782.9
62.5°	1470.1	1464.4	1512.4	1558.3	1566.0
65°	1276.4	1273.3	1318.2	1342.4	1347.1
67.5°	1080.5	1083.0	1123.6	1135.7	1135.0
70°	889.6	889.6	926.4	929.1	918.4
72.5°	704.1	709.5	732.9	726.5	709.6
75°	534.8	539.6	556.0	534.4	518.3
77.5°	377.3	381.4	388.2	364.6	354.4
80°	241.4	248.8	243.8	232.4	225.5
82.5°	134.8	142.4	138.0	148.2	152.9
85°	62.2	66.6	76.3	87.9	92.7
87.5°	21.2	25.2	31.3	33.4	31.2
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	17.38	18.96	17.75	19.28	19.59	17.80	19.38	18.17	19.70	20.01
	3H	18.83	20.25	19.20	20.58	20.94	19.21	20.63	19.58	20.96	21.32
	4H	19.25	20.58	19.64	20.93	21.31	19.57	20.91	19.97	21.26	21.63
	6H	19.45	20.68	19.86	21.05	21.44	19.72	20.96	20.13	21.32	21.71
	8H	19.47	20.65	19.90	21.04	21.44	19.75	20.92	20.17	21.31	21.71
	12H	19.47	20.60	19.90	20.98	21.41	19.76	20.88	20.19	21.27	21.69
4H	2H	17.97	19.31	18.37	19.65	20.03	18.31	19.65	18.71	19.99	20.37
	3H	19.59	20.70	20.00	21.10	21.50	19.90	21.01	20.31	21.41	21.81
	4H	20.09	21.09	20.52	21.51	21.94	20.35	21.35	20.78	21.76	22.20
	6H	20.37	21.24	20.82	21.68	22.14	20.57	21.43	21.02	21.88	22.33
	8H	20.41	21.22	20.87	21.66	22.13	20.61	21.42	21.07	21.86	22.33
	12H	20.42	21.14	20.90	21.62	22.09	20.63	21.36	21.12	21.84	22.31
8H	4H	20.27	21.09	20.74	21.53	22.00	20.51	21.32	20.97	21.76	22.23
	6H	20.60	21.27	21.09	21.76	22.24	20.77	21.44	21.27	21.93	22.41
	8H	20.66	21.26	21.18	21.77	22.26	20.84	21.44	21.35	21.95	22.43
	12H	20.70	21.22	21.20	21.72	22.28	20.90	21.43	21.40	21.92	22.48
12H	4H	20.27	21.00	20.75	21.47	21.94	20.50	21.23	20.98	21.70	22.18
	6H	20.59	21.19	21.10	21.70	22.19	20.76	21.36	21.28	21.87	22.36
	8H	20.69	21.22	21.20	21.71	22.27	20.86	21.39	21.37	21.88	22.45