

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: P1499639

Luminaire Tested: MAE-G-4-120-3LO-STD-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499639
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-STD-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

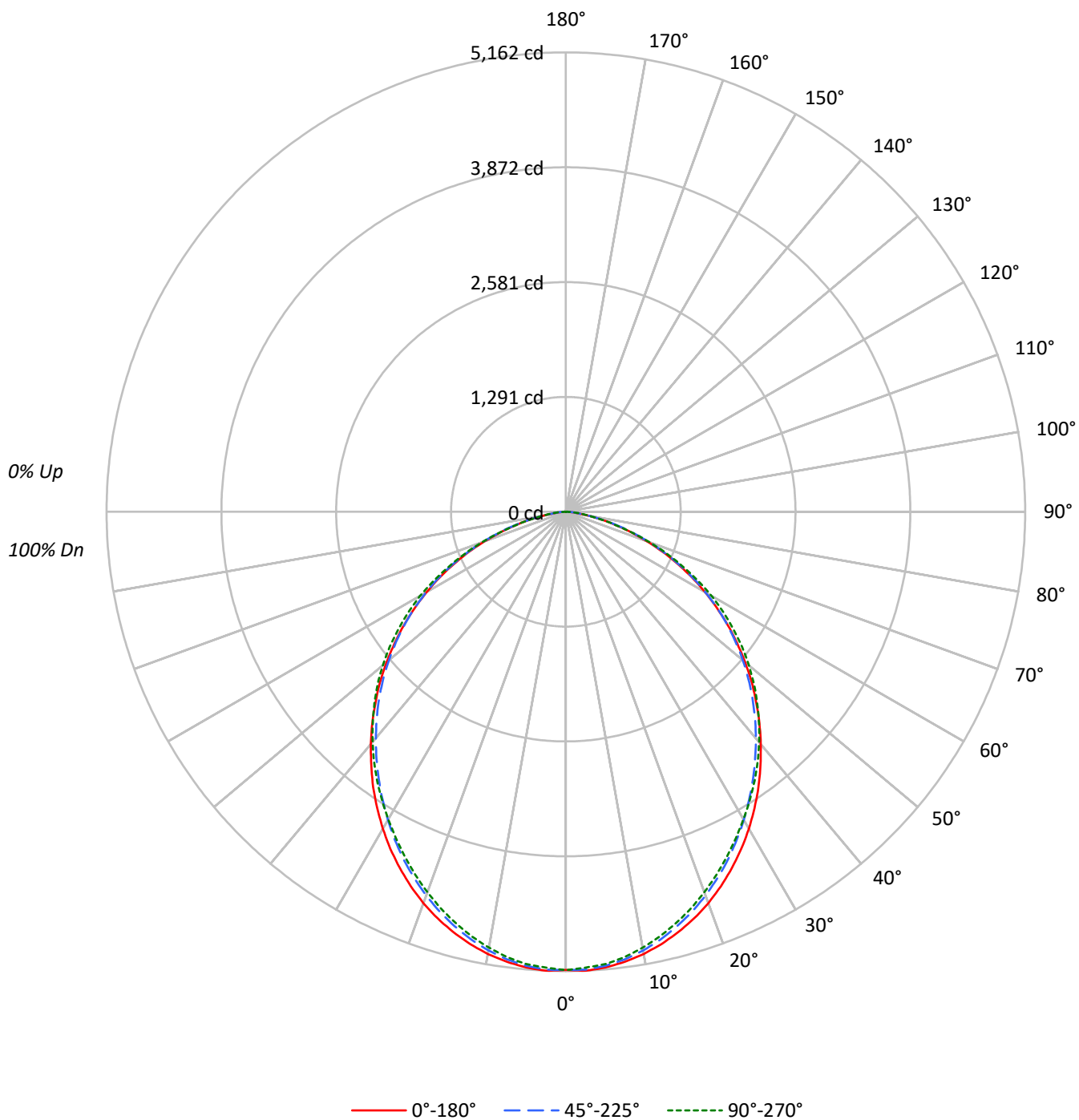
Lumens per Lamp: N/A
Luminaire Lumens: 12598.0 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 140.5
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	81	98	91	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	41	34	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6929	6929	6929
5°	6941	6917	6891
10°	6894	6839	6796
15°	6811	6718	6665
20°	6701	6571	6514
25°	6555	6401	6351
30°	6390	6212	6200
35°	6201	6021	6070
40°	5987	5834	5936
45°	5755	5645	5788
50°	5502	5433	5618
55°	5215	5190	5384
60°	4860	4883	5088
65°	4421	4477	4593
70°	3814	3917	3936
75°	3036	3162	3041
80°	2056	2154	2101
85°	1068	1419	1775

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5788 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.5	3.8
10°-20°	1358.8	10.8
20°-30°	1990.3	15.8
30°-40°	2311.5	18.3
40°-50°	2311.0	18.3
50°-60°	1993.7	15.8
60°-70°	1392.3	11.1
70°-80°	638.6	5.1
80°-90°	117.2	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°	3833.6	30.4
0°-40°	6145.1	48.8
0°-60°	10449.9	82.9
0°-90°	12598.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12598.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5150	5150	5150	5150	5150	
5°	5139	5119	5122	5094	5102	487
15°	4890	4856	4823	4779	4785	1378
25°	4416	4368	4312	4265	4278	2033
35°	3775	3715	3665	3666	3696	2359
45°	3025	2976	2966	3010	3042	2334
55°	2223	2184	2213	2273	2295	1984
65°	1388	1372	1406	1436	1443	1372
75°	584	583	608	597	585	627
85°	69	76	92	108	115	102
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5149.8	5149.8	5149.8	5149.8	5149.8
2.5°	5162.0	5143.4	5149.8	5128.4	5126.7
5°	5139.2	5119.0	5121.6	5094.3	5101.8
7.5°	5099.4	5077.1	5072.2	5041.4	5047.9
10°	5045.6	5018.4	5005.8	4969.5	4973.9
12.5°	4973.9	4944.7	4922.6	4880.4	4887.4
15°	4889.5	4856.2	4822.7	4778.9	4784.7
17.5°	4791.7	4754.1	4712.8	4662.7	4673.2
20°	4679.8	4637.8	4588.9	4536.1	4549.3
22.5°	4554.1	4508.7	4453.7	4404.3	4416.5
25°	4415.7	4368.2	4311.9	4265.3	4278.2
27.5°	4270.1	4217.1	4158.5	4120.9	4135.3
30°	4112.7	4056.8	3998.3	3969.3	3990.7
32.5°	3946.3	3889.8	3834.6	3820.2	3845.3
35°	3775.2	3715.2	3665.4	3666.1	3695.7
37.5°	3591.3	3538.4	3495.3	3511.2	3541.1
40°	3408.9	3353.8	3321.6	3347.5	3379.5
42.5°	3219.9	3169.3	3146.0	3183.6	3212.8
45°	3024.7	2976.1	2966.5	3010.0	3042.0
47.5°	2832.0	2783.2	2784.2	2833.3	2868.6
50°	2628.5	2585.6	2595.6	2652.8	2684.0
52.5°	2424.6	2383.9	2405.3	2466.5	2497.5
55°	2223.1	2184.5	2212.6	2272.9	2295.3
57.5°	2014.2	1986.2	2017.6	2071.7	2096.2
60°	1806.2	1780.7	1814.6	1867.3	1890.6
62.5°	1597.7	1577.5	1612.2	1657.7	1667.7
65°	1388.5	1371.5	1406.2	1435.5	1442.6
67.5°	1176.3	1166.7	1201.6	1222.0	1224.1
70°	969.5	958.4	995.8	1007.7	1000.6
72.5°	768.3	764.8	793.9	797.5	784.2
75°	584.1	582.7	608.2	596.9	584.9
77.5°	413.1	413.9	431.3	417.6	411.7
80°	265.3	273.0	278.0	275.4	271.2
82.5°	149.1	158.8	162.8	179.5	186.6
85°	69.2	76.3	91.9	108.1	115.0
87.5°	23.5	29.2	38.1	41.0	38.5
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	17.66	19.24	18.02	19.56	19.87	17.95	19.53	18.32	19.85	20.16
	3H	19.11	20.54	19.49	20.86	21.23	19.41	20.83	19.78	21.16	21.52
	4H	19.54	20.87	19.93	21.22	21.60	19.81	21.14	20.20	21.49	21.87
	6H	19.74	20.98	20.15	21.34	21.74	19.99	21.23	20.41	21.60	21.99
	8H	19.77	20.95	20.19	21.34	21.74	20.03	21.21	20.46	21.60	22.00
	12H	19.77	20.90	20.20	21.28	21.71	20.06	21.19	20.49	21.57	22.00
4H	2H	18.23	19.57	18.63	19.92	20.29	18.47	19.80	18.86	20.15	20.53
	3H	19.86	20.97	20.27	21.37	21.77	20.11	21.22	20.52	21.62	22.02
	4H	20.37	21.37	20.80	21.79	22.22	20.60	21.60	21.03	22.02	22.45
	6H	20.65	21.52	21.11	21.96	22.42	20.87	21.74	21.32	22.18	22.64
	8H	20.69	21.51	21.16	21.95	22.42	20.92	21.74	21.39	22.18	22.65
	12H	20.71	21.43	21.19	21.91	22.38	20.97	21.70	21.45	22.17	22.64
8H	4H	20.56	21.37	21.02	21.82	22.28	20.77	21.58	21.23	22.03	22.49
	6H	20.90	21.57	21.39	22.06	22.53	21.09	21.76	21.58	22.25	22.73
	8H	20.97	21.57	21.48	22.07	22.56	21.18	21.78	21.69	22.29	22.78
	12H	21.00	21.53	21.51	22.02	22.59	21.26	21.79	21.77	22.29	22.85
12H	4H	20.56	21.29	21.04	21.76	22.23	20.77	21.49	21.25	21.97	22.44
	6H	20.89	21.50	21.41	22.00	22.49	21.08	21.69	21.60	22.20	22.68
	8H	21.00	21.53	21.51	22.02	22.58	21.21	21.74	21.72	22.23	22.80

END OF REPORT