

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: METALUX

Report Number: P894516

Luminaire Tested: 8TMB-12SL-LVR-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-12SL-LVR-UNV-L950
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

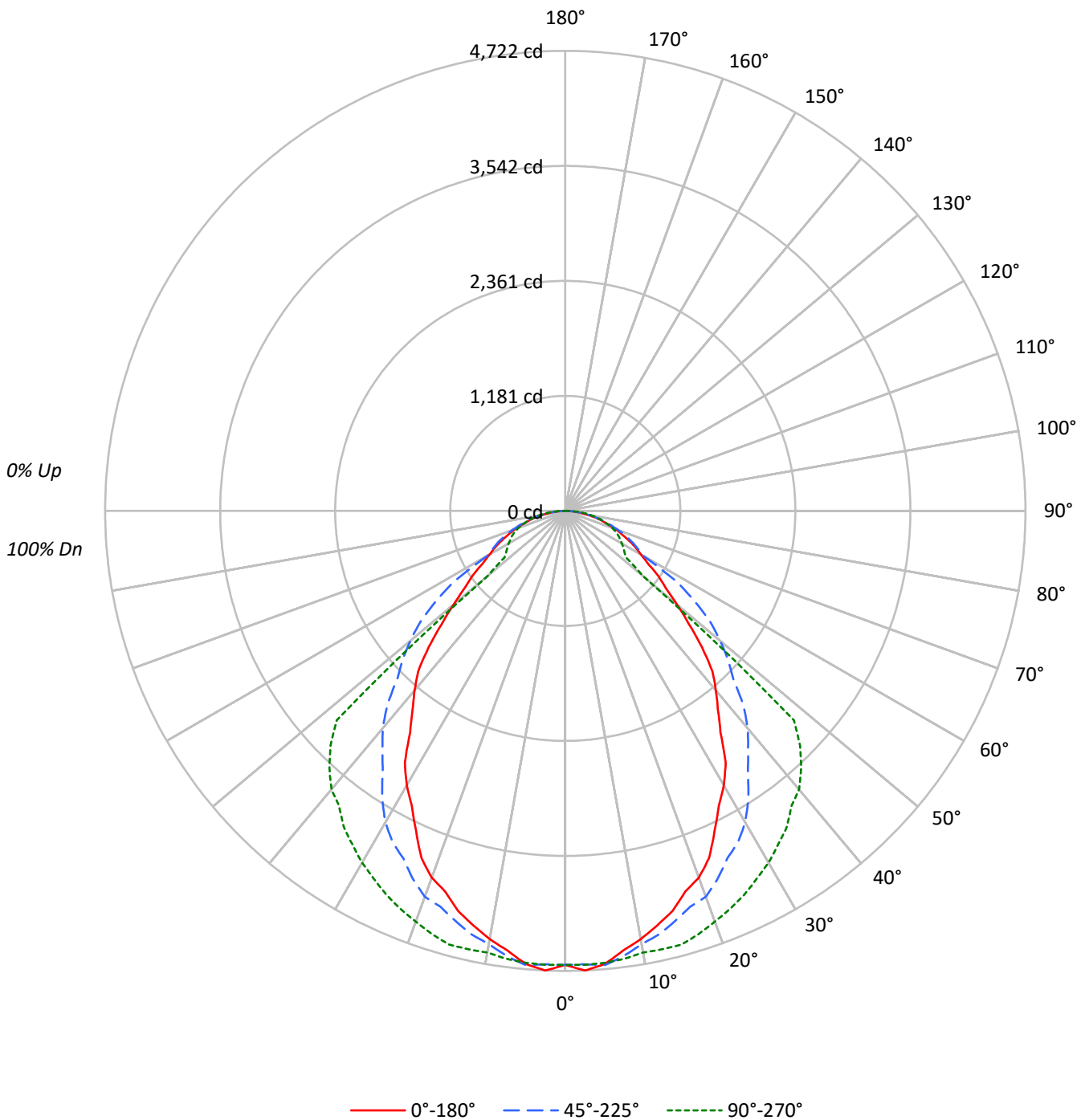
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9945.0 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 88.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.53
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P894516
CATALOG NUMBER: 8TMB-12SL-LVR-UNV-L950

Luminous Intensity Polar Plot





TEST NUMBER: P894516

CATALOG NUMBER: 8TMB-12SL-LVR-UNV-L950

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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16535	16535	16535
5°	16624	16666	16581
10°	16079	16267	16584
15°	15615	16008	16926
20°	15125	15916	16940
25°	14191	15403	17015
30°	13330	15124	17084
35°	12021	14144	17165
40°	11134	13493	17286
45°	9960	12229	17090
50°	8264	11457	5741
55°	7200	10056	4594
60°	6367	6553	4763
65°	6055	6375	5056
70°	5679	6024	5333
75°	5286	5677	5482
80°	4814	5349	5740
85°	4262	4555	6200

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 17090 cd/sqm



TEST NUMBER: P894516
 CATALOG NUMBER: 8TMB-12SL-LVR-UNV-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.0	4.4
10°-20°	1243.5	12.5
20°-30°	1829.2	18.4
30°-40°	2091.9	21.0
40°-50°	1980.8	19.9
50°-60°	1091.3	11.0
60°-70°	700.7	7.0
70°-80°	432.5	4.3
80°-90°	133.1	1.3
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°	3514.7	35.3
0°-40°	5606.6	56.4
0°-60°	8678.8	87.3
0°-90°	9945.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9945.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4660	4660	4660	4660	4660	
5°	4667	4706	4679	4679	4656	438
15°	4251	4303	4358	4586	4608	1193
25°	3625	3787	3934	4191	4346	1669
35°	2775	3013	3266	3739	3963	1754
45°	1985	2173	2437	3128	3406	1518
55°	1164	1221	1626	838	743	1041
65°	721	745	759	676	602	714
75°	386	393	414	436	400	410
85°	105	105	112	128	152	117
90°	0	0	0	0	0	



TEST NUMBER: P894516
 CATALOG NUMBER: 8TMB-12SL-LVR-UNV-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4660.2	4660.2	4660.2	4660.2	4660.2
2.5°	4722.1	4734.0	4657.9	4655.5	4662.6
5°	4667.4	4705.5	4679.3	4679.3	4655.5
7.5°	4550.8	4615.0	4607.9	4662.6	4636.4
10°	4462.7	4515.1	4515.1	4657.9	4603.1
12.5°	4358.0	4417.5	4450.8	4600.7	4607.9
15°	4250.9	4303.2	4358.0	4586.5	4607.9
17.5°	4096.2	4191.4	4260.4	4484.1	4553.1
20°	4005.7	4062.8	4215.2	4396.1	4486.5
22.5°	3855.8	3939.1	4086.6	4288.9	4422.2
25°	3624.9	3786.7	3934.3	4191.4	4346.1
27.5°	3410.7	3532.1	3836.7	4108.1	4255.6
30°	3253.6	3348.8	3691.5	3986.7	4169.9
32.5°	3063.2	3217.9	3496.4	3867.7	4062.8
35°	2775.2	3013.2	3265.5	3739.1	3962.9
37.5°	2572.9	2737.1	3079.9	3605.9	3812.9
40°	2403.9	2553.9	2913.2	3439.3	3732.0
42.5°	2234.9	2356.3	2703.8	3315.5	3582.1
45°	1985.0	2173.0	2437.2	3127.5	3405.9
47.5°	1723.2	1923.1	2263.5	2968.0	3182.2
50°	1497.1	1656.6	2075.5	2651.4	1040.1
52.5°	1299.5	1447.1	1875.5	959.2	785.4
55°	1163.9	1221.0	1625.6	837.8	742.6
57.5°	1002.0	1094.8	1363.8	797.3	704.5
60°	897.3	937.8	923.5	756.9	671.2
62.5°	814.0	842.6	837.8	716.4	633.1
65°	721.2	745.0	759.3	675.9	602.2
67.5°	628.3	649.8	671.2	626.0	559.3
70°	547.4	561.7	580.7	566.5	514.1
72.5°	464.1	480.8	492.7	504.6	454.6
75°	385.6	392.7	414.1	435.6	399.9
77.5°	314.2	321.3	335.6	359.4	340.4
80°	235.6	242.8	261.8	280.9	280.9
82.5°	166.6	171.4	183.3	209.4	221.3
85°	104.7	104.7	111.9	128.5	152.3
87.5°	40.5	40.5	47.6	57.1	76.2
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P894516
 CATALOG NUMBER: 8TMB-12SL-LVR-UNV-L950

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	17.70	19.18	18.06	19.49	19.81	15.50	16.98	15.86	17.30	17.61
	3H	19.22	20.55	19.60	20.88	21.24	17.83	19.16	18.21	19.48	19.85
	4H	19.82	21.06	20.22	21.41	21.79	18.78	20.02	19.18	20.37	20.75
	6H	20.27	21.42	20.69	21.79	22.18	19.56	20.71	19.98	21.08	21.47
	8H	20.42	21.51	20.84	21.90	22.30	19.88	20.97	20.30	21.36	21.76
	12H	20.51	21.56	20.94	21.94	22.37	20.12	21.17	20.56	21.55	21.98
4H	2H	18.25	19.49	18.65	19.84	20.22	16.60	17.85	17.00	18.20	18.58
	3H	20.02	21.05	20.43	21.45	21.85	19.05	20.08	19.46	20.48	20.88
	4H	20.74	21.67	21.17	22.08	22.52	20.12	21.04	20.55	21.46	21.90
	6H	21.33	22.13	21.78	22.57	23.03	21.00	21.81	21.46	22.25	22.71
	8H	21.51	22.27	21.98	22.71	23.18	21.35	22.11	21.82	22.55	23.02
	12H	21.65	22.32	22.13	22.80	23.28	21.64	22.32	22.13	22.80	23.27
8H	4H	21.05	21.80	21.51	22.24	22.71	20.50	21.26	20.97	21.70	22.17
	6H	21.76	22.38	22.26	22.87	23.35	21.54	22.16	22.04	22.65	23.13
	8H	22.02	22.58	22.53	23.09	23.58	21.98	22.55	22.50	23.06	23.54
	12H	22.23	22.73	22.74	23.22	23.79	22.37	22.87	22.88	23.36	23.92
12H	4H	21.08	21.76	21.57	22.23	22.71	20.54	21.21	21.02	21.69	22.16
	6H	21.82	22.39	22.34	22.90	23.38	21.60	22.16	22.12	22.68	23.16
	8H	22.14	22.64	22.65	23.13	23.70	22.11	22.61	22.62	23.10	23.67