

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: P894514

Luminaire Tested: 8TMB-12SL-LVR-UNV-L935

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P894514  
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-L935  
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3500K CCT  
Light Source: -  
Ballast/Driver: -

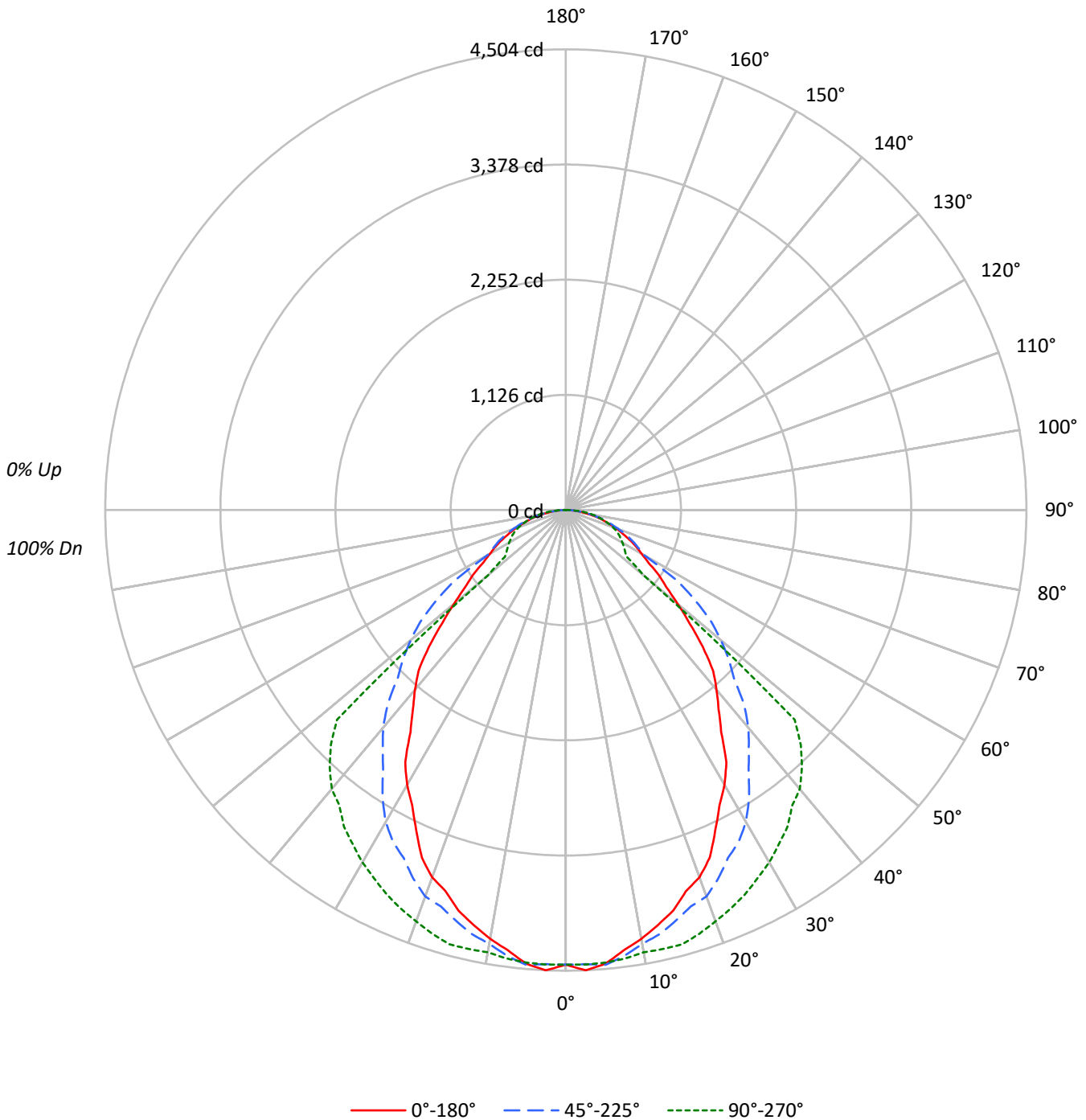
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9486.0 lumens  
Efficiency: N/A  
Efficacy: 106.8 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<sub>in</sub>): 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

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15772	15772	15772
5°	15857	15897	15816
10°	15336	15516	15819
15°	14894	15269	16145
20°	14427	15181	16158
25°	13536	14692	16229
30°	12715	14426	16296
35°	11466	13492	16373
40°	10621	12871	16488
45°	9501	11665	16301
50°	7882	10928	5476
55°	6868	9592	4382
60°	6074	6251	4543
65°	5775	6080	4822
70°	5417	5746	5087
75°	5042	5415	5229
80°	4593	5102	5474
85°	4067	4344	5915

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 16301 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	421.6	4.4
10°-20°	1186.1	12.5
20°-30°	1744.8	18.4
30°-40°	1995.3	21.0
40°-50°	1889.4	19.9
50°-60°	1041.0	11.0
60°-70°	668.4	7.0
70°-80°	412.5	4.3
80°-90°	127.0	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°	3352.5	35.3
0°-40°	5347.8	56.4
0°-60°	8278.2	87.3
0°-90°	9486.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9486.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4445	4445	4445	4445	4445	
5°	4452	4488	4463	4463	4441	418
15°	4055	4105	4157	4375	4395	1138
25°	3458	3612	3753	3998	4146	1592
35°	2647	2874	3115	3567	3780	1673
45°	1893	2073	2325	2983	3249	1448
55°	1110	1165	1551	799	708	993
65°	688	711	724	645	574	681
75°	368	375	395	416	381	391
85°	100	100	107	123	145	111
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4445.2	4445.2	4445.2	4445.2	4445.2
2.5°	4504.2	4515.5	4442.9	4440.6	4447.4
5°	4452.0	4488.3	4463.3	4463.3	4440.6
7.5°	4340.7	4402.0	4395.2	4447.4	4422.5
10°	4256.7	4306.7	4306.7	4442.9	4390.7
12.5°	4156.8	4213.6	4245.4	4388.4	4395.2
15°	4054.7	4104.6	4156.8	4374.8	4395.2
17.5°	3907.1	3997.9	4063.8	4277.2	4343.0
20°	3820.8	3875.3	4020.6	4193.2	4279.4
22.5°	3677.8	3757.3	3898.0	4091.0	4218.1
25°	3457.6	3612.0	3752.7	3997.9	4145.5
27.5°	3253.3	3369.1	3659.6	3918.5	4059.2
30°	3103.4	3194.2	3521.2	3802.7	3977.5
32.5°	2921.8	3069.4	3335.0	3689.2	3875.3
35°	2647.1	2874.1	3114.8	3566.6	3780.0
37.5°	2454.1	2610.8	2937.7	3439.4	3636.9
40°	2293.0	2436.0	2778.8	3280.5	3559.8
42.5°	2131.8	2247.6	2579.0	3162.5	3416.7
45°	1893.4	2072.7	2324.7	2983.1	3248.7
47.5°	1643.7	1834.4	2159.0	2831.0	3035.3
50°	1428.0	1580.1	1979.7	2529.1	992.1
52.5°	1239.6	1380.3	1789.0	914.9	749.2
55°	1110.2	1164.6	1550.6	799.1	708.3
57.5°	955.8	1044.3	1300.9	760.5	672.0
60°	855.9	894.5	880.9	721.9	640.2
62.5°	776.4	803.7	799.1	683.3	603.9
65°	687.9	710.6	724.2	644.8	574.4
67.5°	599.3	619.8	640.2	597.1	533.5
70°	522.2	535.8	553.9	540.3	490.4
72.5°	442.7	458.6	469.9	481.3	433.6
75°	367.8	374.6	395.0	415.5	381.4
77.5°	299.7	306.5	320.1	342.8	324.6
80°	224.8	231.6	249.7	267.9	267.9
82.5°	158.9	163.5	174.8	199.8	211.1
85°	99.9	99.9	106.7	122.6	145.3
87.5°	38.6	38.6	45.4	54.5	72.6
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	17.53	19.02	17.90	19.33	19.64	15.34	16.82	15.70	17.13	17.45
	3H	19.06	20.39	19.44	20.71	21.08	17.67	18.99	18.04	19.32	19.68
	4H	19.65	20.89	20.05	21.24	21.62	18.62	19.86	19.02	20.21	20.59
	6H	20.11	21.26	20.52	21.62	22.02	19.40	20.55	19.81	20.91	21.31
	8H	20.25	21.34	20.68	21.73	22.14	19.71	20.80	20.14	21.19	21.60
	12H	20.35	21.39	20.78	21.78	22.21	19.96	21.01	20.39	21.39	21.82
4H	2H	18.08	19.33	18.48	19.68	20.06	16.44	17.68	16.84	18.03	18.41
	3H	19.86	20.88	20.27	21.29	21.69	18.89	19.91	19.30	20.31	20.72
	4H	20.58	21.50	21.01	21.92	22.36	19.95	20.88	20.38	21.29	21.73
	6H	21.16	21.97	21.62	22.41	22.87	20.84	21.64	21.30	22.09	22.55
	8H	21.35	22.10	21.81	22.55	23.02	21.19	21.94	21.65	22.39	22.86
	12H	21.49	22.16	21.97	22.64	23.11	21.48	22.15	21.96	22.63	23.10
8H	4H	20.88	21.64	21.35	22.08	22.55	20.34	21.09	20.80	21.54	22.00
	6H	21.59	22.22	22.09	22.71	23.19	21.37	22.00	21.87	22.49	22.97
	8H	21.86	22.42	22.37	22.93	23.42	21.82	22.38	22.33	22.89	23.38
	12H	22.06	22.56	22.57	23.06	23.62	22.20	22.70	22.71	23.19	23.76
12H	4H	20.92	21.59	21.40	22.07	22.54	20.37	21.05	20.86	21.52	22.00
	6H	21.66	22.22	22.17	22.73	23.22	21.44	22.00	21.95	22.51	23.00
	8H	21.98	22.48	22.49	22.97	23.54	21.95	22.44	22.46	22.94	23.50