

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: P894410

Luminaire Tested: 8TMB-10SL-LVRA-UNV-L935

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P894410  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-10SL-LVRA-UNV-L935  
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 3500K CCT  
Light Source: -  
Ballast/Driver: -

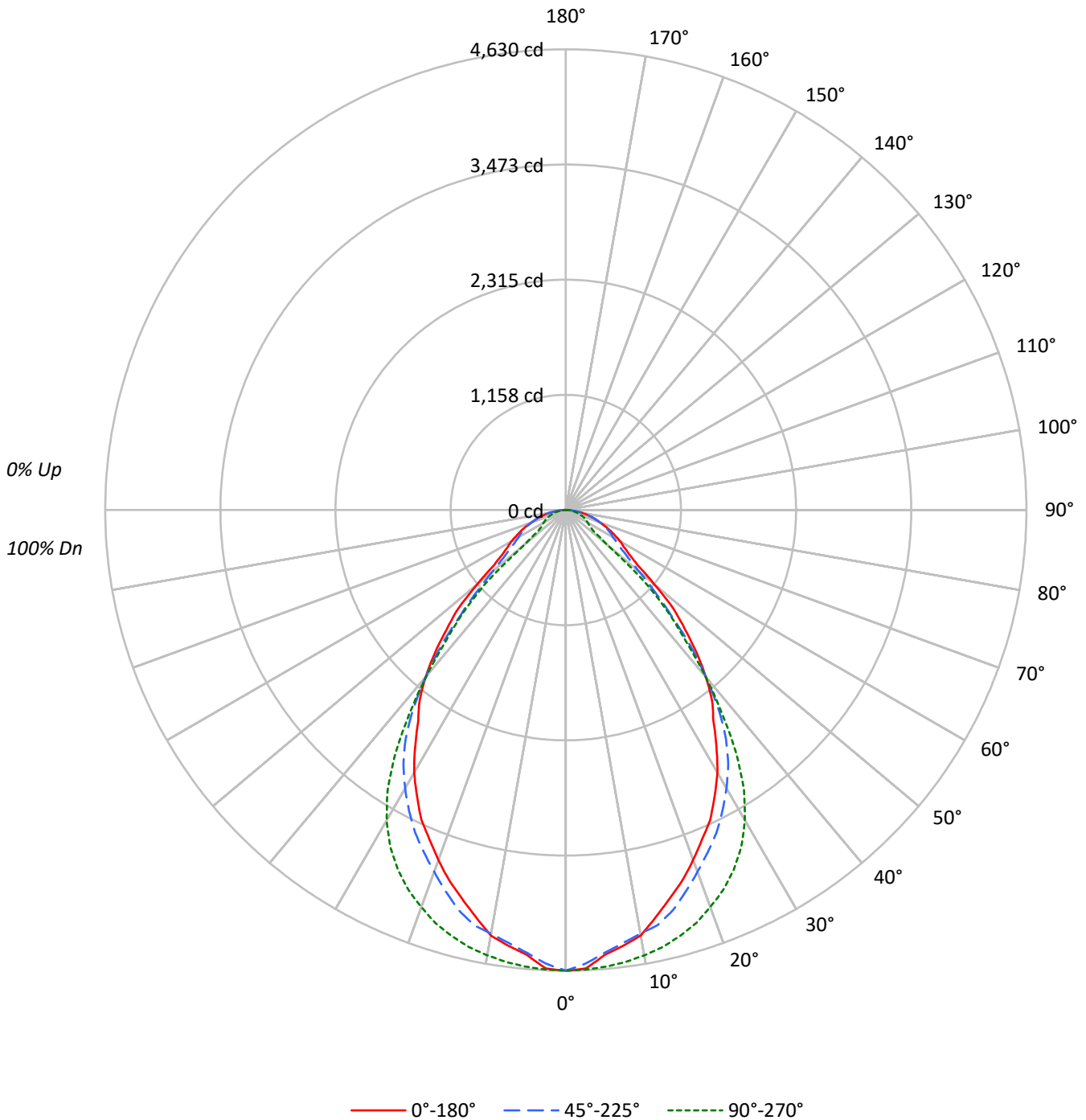
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7514.0 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12  
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 70  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.995  
Total Harmonic Distortion (THDi): 5.63  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P894410  
CATALOG NUMBER: 8TMB-10SL-LVRA-UNV-L935

### Luminous Intensity Polar Plot





TEST NUMBER: P894410

CATALOG NUMBER: 8TMB-10SL-LVRA-UNV-L935

**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	100		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78		
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69		
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62		
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55		
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50		
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45		
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41		
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38		
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35		

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

	0°	45°	90°
0°	16427	16427	16427
5°	15984	15912	16409
10°	15644	15576	16371
15°	14837	15293	16279
20°	14134	14611	16031
25°	13445	14019	15621
30°	12491	13234	14749
35°	11200	12161	12937
40°	10147	10169	10114
45°	8484	7514	7329
50°	6409	5289	2997
55°	4820	4229	1890
60°	4479	3895	1820
65°	4168	3887	1824
70°	3812	3812	1795
75°	3615	3714	1734
80°	3341	3510	1780
85°	2915	3061	1942

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 8682 cd/sqm



TEST NUMBER: P894410  
 CATALOG NUMBER: 8TMB-10SL-LVRA-UNV-L935

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	427.7	5.7
10°-20°	1178.4	15.7
20°-30°	1671.0	22.2
30°-40°	1721.5	22.9
40°-50°	1202.4	16.0
50°-60°	577.0	7.7
60°-70°	404.8	5.4
70°-80°	253.1	3.4
80°-90°	78.3	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°	3277.0	43.6
0°-40°	4998.5	66.5
0°-60°	6777.9	90.2
0°-90°	7514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7514.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4630	4630	4630	4630	4630	
5°	4488	4482	4468	4584	4607	425
15°	4039	4069	4163	4283	4432	1137
25°	3434	3469	3581	3823	3990	1570
35°	2586	2656	2808	2866	2987	1629
45°	1691	1730	1498	1421	1460	1303
55°	779	741	684	438	306	730
65°	496	464	463	352	217	492
75°	264	260	271	234	126	278
85°	72	72	75	74	48	80
90°	0	0	0	0	0	



TEST NUMBER: P894410

CATALOG NUMBER: 8TMB-10SL-LVRA-UNV-L935

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4629.8	4629.8	4629.8	4629.8	4629.8
2.5°	4611.9	4597.6	4563.0	4626.2	4621.5
5°	4487.8	4481.8	4467.5	4584.5	4607.1
7.5°	4417.4	4405.5	4388.8	4517.6	4580.9
10°	4342.2	4356.6	4323.1	4441.3	4543.9
12.5°	4187.1	4225.3	4270.6	4362.5	4498.5
15°	4039.1	4069.0	4163.2	4282.6	4431.7
17.5°	3900.7	3935.3	4016.5	4195.5	4354.2
20°	3743.2	3791.0	3869.7	4098.8	4245.6
22.5°	3580.9	3625.1	3724.1	3969.9	4133.4
25°	3434.2	3468.8	3580.9	3823.2	3990.2
27.5°	3239.7	3304.1	3410.3	3644.2	3819.6
30°	3048.8	3103.6	3230.1	3427.0	3600.0
32.5°	2818.5	2898.4	3038.0	3188.4	3332.7
35°	2585.8	2656.2	2807.7	2866.2	2986.7
37.5°	2416.3	2435.4	2521.3	2514.2	2582.2
40°	2190.8	2229.0	2195.6	2106.1	2183.6
42.5°	1947.4	1992.7	1857.9	1754.1	1781.5
45°	1690.8	1730.2	1497.5	1421.2	1460.5
47.5°	1468.9	1465.3	1207.6	1156.3	1101.4
50°	1161.0	1199.2	958.2	862.7	542.9
52.5°	906.9	921.2	789.9	551.3	356.8
55°	779.2	741.0	683.7	437.9	305.5
57.5°	692.1	644.4	606.2	406.9	279.2
60°	631.2	577.5	548.9	386.6	256.5
62.5°	562.0	520.3	509.5	368.7	236.3
65°	496.4	464.2	463.0	352.0	217.2
67.5°	430.8	412.9	417.6	331.7	195.7
70°	367.5	363.9	367.5	305.5	173.0
72.5°	313.8	310.2	319.8	272.1	148.0
75°	263.7	260.1	270.9	233.9	126.5
77.5°	210.0	212.4	219.6	194.5	106.2
80°	163.5	163.5	171.8	152.7	87.1
82.5°	116.9	118.1	122.9	112.2	68.0
85°	71.6	71.6	75.2	74.0	47.7
87.5°	23.9	27.4	32.2	34.6	23.9
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P894410  
 CATALOG NUMBER: 8TMB-10SL-LVRA-UNV-L935

**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	15.37	16.73	15.74	17.04	17.35	11.70	13.06	12.07	13.37	13.68
	3H	17.11	18.32	17.49	18.65	19.01	13.68	14.89	14.06	15.22	15.58
	4H	17.78	18.91	18.18	19.26	19.64	14.38	15.51	14.79	15.86	16.24
	6H	18.29	19.33	18.70	19.70	20.09	14.91	15.95	15.32	16.31	16.71
	8H	18.46	19.44	18.89	19.84	20.24	15.09	16.08	15.52	16.47	16.87
	12H	18.57	19.51	19.00	19.89	20.32	15.23	16.17	15.66	16.56	16.99
4H	2H	15.90	17.03	16.30	17.38	17.76	13.33	14.45	13.73	14.80	15.19
	3H	17.88	18.81	18.29	19.21	19.62	15.50	16.43	15.92	16.84	17.24
	4H	18.68	19.52	19.12	19.93	20.38	16.38	17.22	16.82	17.64	18.08
	6H	19.32	20.05	19.79	20.49	20.96	17.03	17.75	17.49	18.20	18.66
	8H	19.54	20.22	20.01	20.67	21.14	17.24	17.91	17.70	18.36	18.83
	12H	19.70	20.30	20.18	20.78	21.25	17.39	17.99	17.88	18.48	18.95
8H	4H	18.97	19.64	19.43	20.09	20.56	17.03	17.71	17.50	18.16	18.63
	6H	19.75	20.30	20.25	20.80	21.28	17.89	18.45	18.39	18.94	19.42
	8H	20.05	20.55	20.57	21.06	21.55	18.22	18.72	18.74	19.23	19.73
	12H	20.29	20.73	20.80	21.22	21.79	18.49	18.93	19.00	19.42	19.99
12H	4H	18.98	19.58	19.47	20.06	20.54	17.11	17.71	17.59	18.19	18.66
	6H	19.80	20.30	20.32	20.81	21.31	18.03	18.53	18.55	19.04	19.54
	8H	20.17	20.61	20.68	21.10	21.67	18.44	18.88	18.96	19.38	19.95