

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: P894404

Luminaire Tested: 8TMB-10SL-LVR-UNV-L950

Issue Date: 11/11/2024

**Test Information**

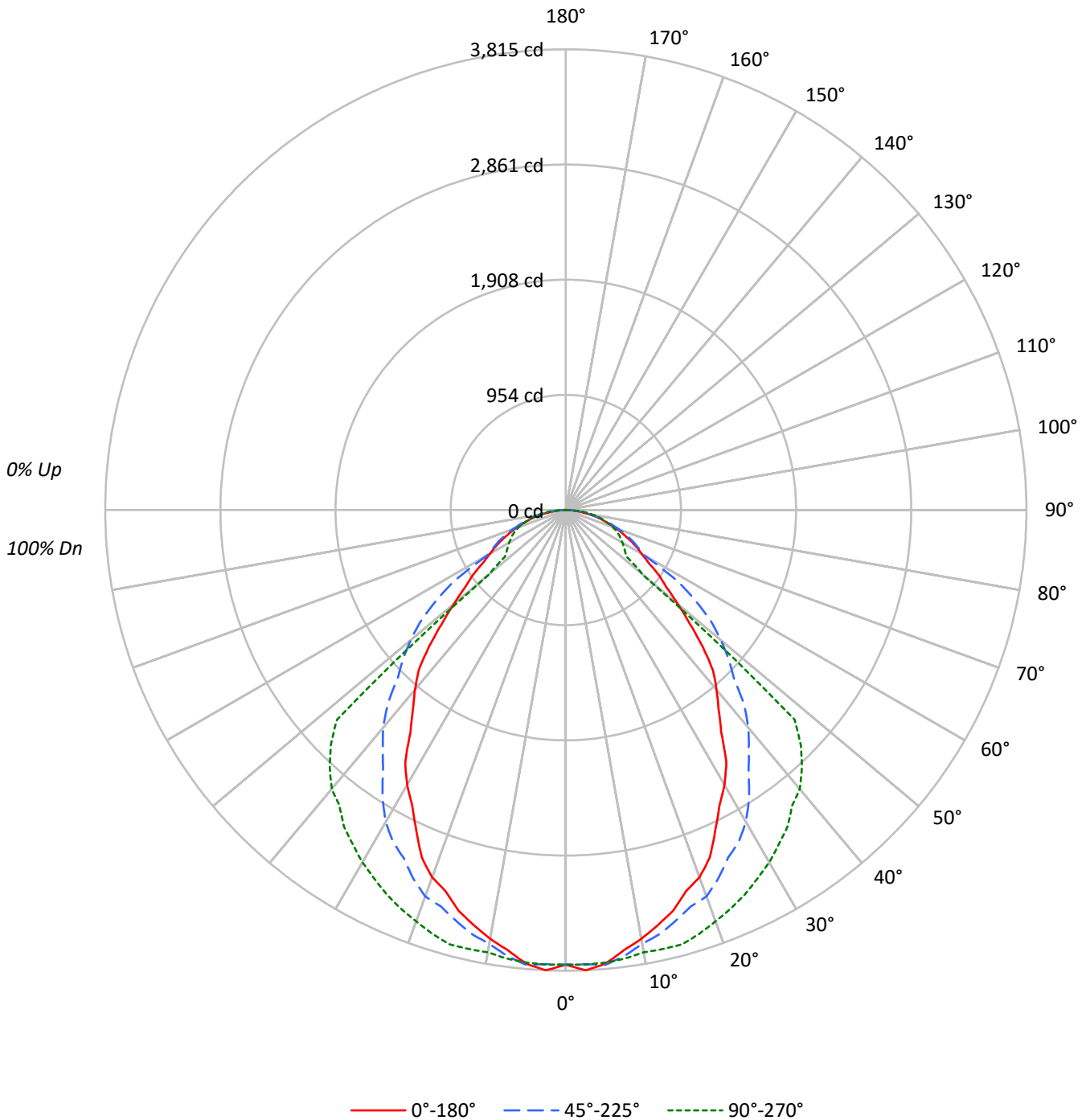
Test Method: LM-79-2019  
Report Number: P894404  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-10SL-LVR-UNV-L950  
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 5000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8035.0 lumens  
Efficiency: N/A  
Efficacy: 114.8 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): 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

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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	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°	13359	13359	13359
5°	13431	13465	13397
10°	12991	13143	13399
15°	12616	12934	13675
20°	12220	12859	13687
25°	11466	12444	13747
30°	10770	12220	13803
35°	9712	11428	13869
40°	8996	10902	13966
45°	8048	9881	13808
50°	6677	9256	4638
55°	5817	8125	3712
60°	5145	5295	3848
65°	4892	5150	4084
70°	4588	4868	4309
75°	4270	4587	4429
80°	3890	4322	4636
85°	3444	3680	5011

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 13808 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	357.1	4.4
10°-20°	1004.7	12.5
20°-30°	1477.9	18.4
30°-40°	1690.1	21.0
40°-50°	1600.4	19.9
50°-60°	881.7	11.0
60°-70°	566.1	7.0
70°-80°	349.4	4.3
80°-90°	107.5	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°	2839.7	35.3
0°-40°	4529.8	56.4
0°-60°	7012.0	87.3
0°-90°	8035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8035.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3765	3765	3765	3765	3765	
5°	3771	3802	3781	3781	3761	354
15°	3434	3477	3521	3706	3723	964
25°	2929	3060	3179	3386	3511	1349
35°	2242	2434	2638	3021	3202	1417
45°	1604	1756	1969	2527	2752	1227
55°	940	986	1313	677	600	841
65°	583	602	613	546	486	577
75°	312	317	335	352	323	331
85°	85	85	90	104	123	94
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3765.2	3765.2	3765.2	3765.2	3765.2
2.5°	3815.2	3824.8	3763.3	3761.4	3767.1
5°	3771.0	3801.8	3780.6	3780.6	3761.4
7.5°	3676.8	3728.7	3722.9	3767.1	3746.0
10°	3605.6	3647.9	3647.9	3763.3	3719.1
12.5°	3521.0	3569.1	3596.0	3717.1	3722.9
15°	3434.5	3476.8	3521.0	3705.6	3722.9
17.5°	3309.5	3386.4	3442.2	3622.9	3678.7
20°	3236.4	3282.5	3405.6	3551.8	3624.8
22.5°	3115.2	3182.5	3301.8	3465.2	3572.9
25°	2928.7	3059.5	3178.7	3386.4	3511.4
27.5°	2755.6	2853.7	3099.9	3319.1	3438.3
30°	2628.7	2705.6	2982.6	3221.0	3369.1
32.5°	2474.9	2599.9	2824.9	3124.9	3282.5
35°	2242.2	2434.5	2638.3	3021.0	3201.8
37.5°	2078.8	2211.4	2488.3	2913.3	3080.6
40°	1942.2	2063.4	2353.7	2778.7	3015.2
42.5°	1805.7	1903.8	2184.5	2678.7	2894.1
45°	1603.8	1755.7	1969.1	2526.8	2751.8
47.5°	1392.2	1553.8	1828.8	2398.0	2571.0
50°	1209.6	1338.4	1676.8	2142.2	840.3
52.5°	1050.0	1169.2	1515.3	775.0	634.6
55°	940.3	986.5	1313.4	676.9	600.0
57.5°	809.6	884.6	1101.9	644.2	569.2
60°	725.0	757.7	746.1	611.5	542.3
62.5°	657.7	680.7	676.9	578.8	511.5
65°	582.7	601.9	613.4	546.1	486.5
67.5°	507.7	525.0	542.3	505.7	451.9
70°	442.3	453.8	469.2	457.7	415.4
72.5°	375.0	388.4	398.1	407.7	367.3
75°	311.5	317.3	334.6	351.9	323.1
77.5°	253.8	259.6	271.1	290.4	275.0
80°	190.4	196.1	211.5	226.9	226.9
82.5°	134.6	138.5	148.1	169.2	178.8
85°	84.6	84.6	90.4	103.8	123.1
87.5°	32.7	32.7	38.5	46.2	61.5
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	16.96	18.44	17.32	18.75	19.07	14.76	16.24	15.12	16.55	16.87
	3H	18.48	19.81	18.86	20.14	20.50	17.09	18.42	17.47	18.74	19.11
	4H	19.08	20.32	19.48	20.67	21.05	18.04	19.28	18.44	19.63	20.01
	6H	19.53	20.68	19.94	21.05	21.44	18.82	19.97	19.24	20.34	20.73
	8H	19.68	20.77	20.10	21.16	21.56	19.14	20.23	19.56	20.62	21.02
	12H	19.77	20.82	20.20	21.20	21.63	19.38	20.43	19.81	20.81	21.24
4H	2H	17.51	18.75	17.91	19.10	19.48	15.86	17.11	16.26	17.46	17.83
	3H	19.28	20.31	19.69	20.71	21.11	18.31	19.34	18.72	19.74	20.14
	4H	20.00	20.92	20.43	21.34	21.78	19.37	20.30	19.81	20.72	21.16
	6H	20.58	21.39	21.04	21.83	22.29	20.26	21.07	20.72	21.51	21.97
	8H	20.77	21.53	21.24	21.97	22.44	20.61	21.37	21.08	21.81	22.28
	12H	20.91	21.58	21.39	22.06	22.53	20.90	21.58	21.39	22.05	22.53
8H	4H	20.31	21.06	20.77	21.50	21.97	19.76	20.51	20.23	20.96	21.43
	6H	21.02	21.64	21.51	22.13	22.61	20.80	21.42	21.29	21.91	22.39
	8H	21.28	21.84	21.79	22.35	22.84	21.24	21.80	21.76	22.31	22.80
	12H	21.49	21.99	22.00	22.48	23.04	21.63	22.12	22.14	22.62	23.18
12H	4H	20.34	21.02	20.83	21.49	21.97	19.80	20.47	20.28	20.95	21.42
	6H	21.08	21.64	21.60	22.16	22.64	20.86	21.42	21.38	21.93	22.42
	8H	21.40	21.90	21.91	22.39	22.96	21.37	21.87	21.88	22.36	22.93