

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: P895236

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

Issue Date: 11/11/2024

**Test Information**

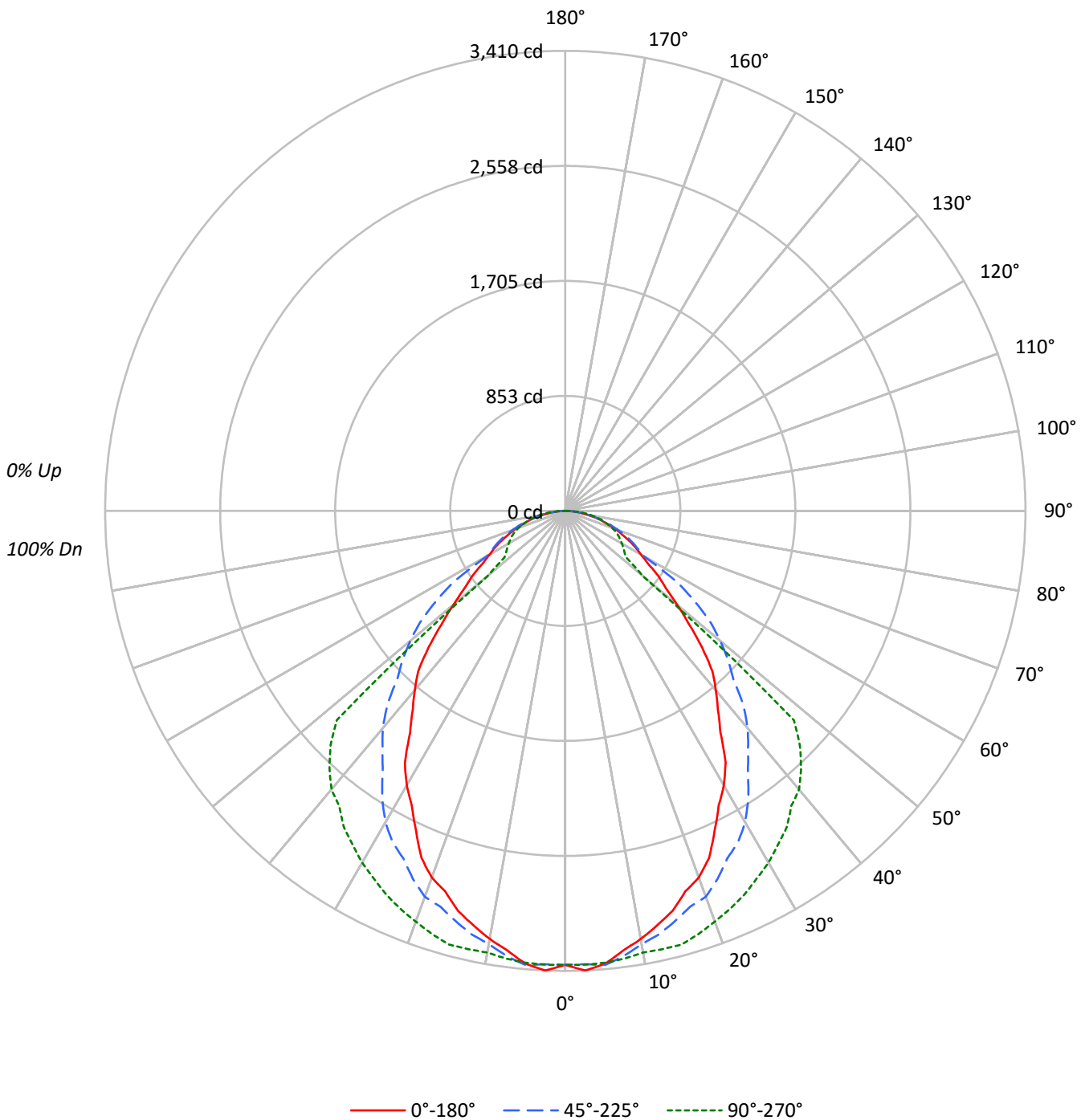
Test Method: LM-79-2019  
Report Number: P895236  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-8SL-LVR-UNV-L950  
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 5000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7181.0 lumens  
Efficiency: N/A  
Efficacy: 120.5 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): 59.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 3.8  
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°	11939	11939	11939
5°	12004	12034	11973
10°	11610	11746	11975
15°	11275	11559	12222
20°	10921	11492	12232
25°	10247	11122	12286
30°	9625	10921	12336
35°	8680	10213	12395
40°	8040	9743	12482
45°	7192	8831	12340
50°	5967	8272	4145
55°	5199	7261	3317
60°	4598	4732	3439
65°	4372	4602	3650
70°	4101	4350	3851
75°	3817	4099	3958
80°	3476	3862	4144
85°	3078	3289	4478

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 12340 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.2	4.4
10°-20°	897.9	12.5
20°-30°	1320.8	18.4
30°-40°	1510.5	21.0
40°-50°	1430.3	19.9
50°-60°	788.0	11.0
60°-70°	505.9	7.0
70°-80°	312.3	4.3
80°-90°	96.1	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°	2537.9	35.3
0°-40°	4048.4	56.4
0°-60°	6266.7	87.3
0°-90°	7181.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7181.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3365	3365	3365	3365	3365	
5°	3370	3398	3379	3379	3362	316
15°	3069	3107	3147	3312	3327	862
25°	2617	2734	2841	3026	3138	1205
35°	2004	2176	2358	2700	2862	1267
45°	1433	1569	1760	2258	2459	1096
55°	840	882	1174	605	536	751
65°	521	538	548	488	435	515
75°	278	284	299	314	289	296
85°	76	76	81	93	110	84
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3365.0	3365.0	3365.0	3365.0	3365.0
2.5°	3409.7	3418.3	3363.3	3361.6	3366.7
5°	3370.2	3397.7	3378.8	3378.8	3361.6
7.5°	3286.0	3332.4	3327.2	3366.7	3347.8
10°	3222.4	3260.2	3260.2	3363.3	3323.8
12.5°	3146.8	3189.7	3213.8	3322.1	3327.2
15°	3069.4	3107.2	3146.8	3311.8	3327.2
17.5°	2957.7	3026.5	3076.3	3237.9	3287.7
20°	2892.4	2933.7	3043.6	3174.3	3239.6
22.5°	2784.1	2844.3	2950.8	3096.9	3193.2
25°	2617.4	2734.3	2840.9	3026.5	3138.2
27.5°	2462.8	2550.4	2770.4	2966.3	3072.9
30°	2349.3	2418.1	2665.6	2878.7	3011.0
32.5°	2211.8	2323.6	2524.6	2792.7	2933.7
35°	2003.9	2175.8	2357.9	2699.9	2861.5
37.5°	1857.8	1976.4	2223.9	2603.7	2753.2
40°	1735.8	1844.1	2103.6	2483.4	2694.8
42.5°	1613.8	1701.4	1952.3	2394.0	2586.5
45°	1433.3	1569.1	1759.9	2258.2	2459.3
47.5°	1244.3	1388.6	1634.4	2143.1	2297.8
50°	1081.0	1196.1	1498.6	1914.5	751.0
52.5°	938.4	1044.9	1354.3	692.6	567.1
55°	840.4	881.6	1173.8	604.9	536.2
57.5°	723.5	790.6	984.8	575.7	508.7
60°	647.9	677.1	666.8	546.5	484.6
62.5°	587.8	608.4	604.9	517.3	457.1
65°	520.7	537.9	548.2	488.1	434.8
67.5°	453.7	469.2	484.6	452.0	403.9
70°	395.3	405.6	419.3	409.0	371.2
72.5°	335.1	347.2	355.8	364.3	328.3
75°	278.4	283.6	299.0	314.5	288.7
77.5°	226.9	232.0	242.3	259.5	245.8
80°	170.1	175.3	189.0	202.8	202.8
82.5°	120.3	123.7	132.3	151.2	159.8
85°	75.6	75.6	80.8	92.8	110.0
87.5°	29.2	29.2	34.4	41.2	55.0
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	16.57	18.05	16.93	18.36	18.68	14.37	15.85	14.73	16.16	16.48
	3H	18.09	19.42	18.47	19.75	20.11	16.70	18.03	17.08	18.35	18.72
	4H	18.68	19.93	19.09	20.28	20.66	17.65	18.89	18.05	19.24	19.62
	6H	19.14	20.29	19.55	20.66	21.05	18.43	19.58	18.85	19.95	20.34
	8H	19.29	20.38	19.71	20.77	21.17	18.74	19.84	19.17	20.23	20.63
	12H	19.38	20.43	19.81	20.81	21.24	18.99	20.04	19.42	20.42	20.85
4H	2H	17.12	18.36	17.52	18.71	19.09	15.47	16.72	15.87	17.06	17.44
	3H	18.89	19.92	19.30	20.32	20.72	17.92	18.95	18.33	19.35	19.75
	4H	19.61	20.53	20.04	20.95	21.39	18.98	19.91	19.42	20.33	20.77
	6H	20.19	21.00	20.65	21.44	21.90	19.87	20.68	20.33	21.12	21.58
	8H	20.38	21.14	20.85	21.58	22.05	20.22	20.98	20.69	21.42	21.89
	12H	20.52	21.19	21.00	21.67	22.14	20.51	21.18	20.99	21.66	22.14
8H	4H	19.92	20.67	20.38	21.11	21.58	19.37	20.12	19.83	20.57	21.04
	6H	20.63	21.25	21.12	21.74	22.22	20.41	21.03	20.90	21.52	22.00
	8H	20.89	21.45	21.40	21.96	22.45	20.85	21.41	21.37	21.92	22.41
	12H	21.10	21.60	21.61	22.09	22.65	21.24	21.73	21.75	22.23	22.79
12H	4H	19.95	20.62	20.43	21.10	21.58	19.41	20.08	19.89	20.56	21.03
	6H	20.69	21.25	21.21	21.76	22.25	20.47	21.03	20.99	21.54	22.03
	8H	21.01	21.51	21.52	22.00	22.57	20.98	21.48	21.49	21.97	22.54