

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: P895234

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

Issue Date: 11/11/2024

**Test Information**

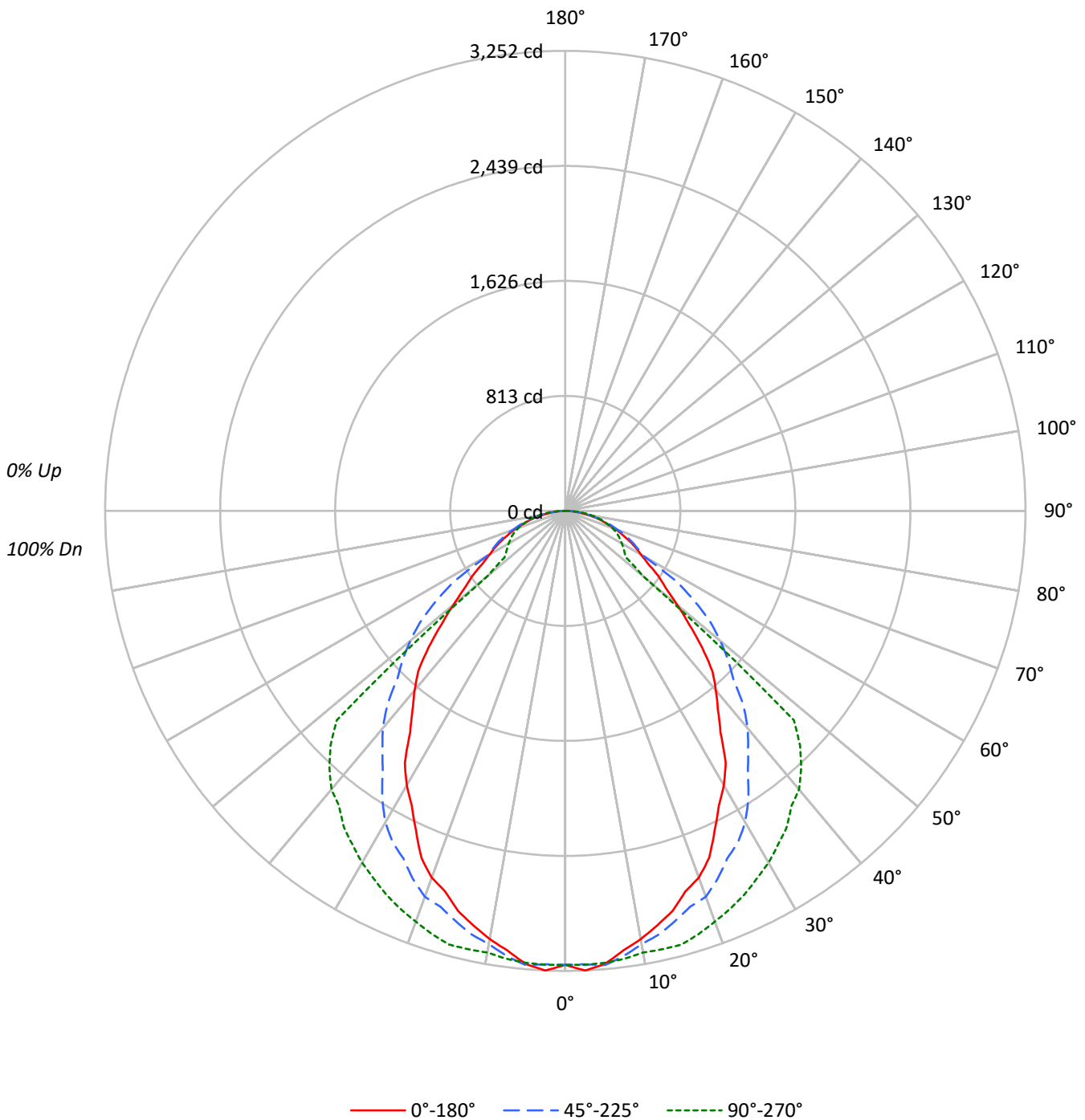
Test Method: LM-79-2019  
Report Number: P895234  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-8SL-LVR-UNV-L935  
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3500K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6849.0 lumens  
Efficiency: N/A  
Efficacy: 114.9 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°	11388	11388	11388
5°	11449	11478	11419
10°	11073	11203	11421
15°	10754	11025	11657
20°	10416	10961	11667
25°	9773	10608	11718
30°	9180	10416	11766
35°	8278	9741	11821
40°	7668	9293	11905
45°	6859	8422	11770
50°	5691	7890	3954
55°	4958	6925	3164
60°	4385	4513	3280
65°	4170	4390	3482
70°	3911	4150	3673
75°	3640	3910	3775
80°	3316	3684	3952
85°	2935	3135	4271

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 11770 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.4	4.4
10°-20°	856.4	12.5
20°-30°	1259.8	18.4
30°-40°	1440.7	21.0
40°-50°	1364.2	19.9
50°-60°	751.6	11.0
60°-70°	482.6	7.0
70°-80°	297.8	4.3
80°-90°	91.7	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°	2420.5	35.3
0°-40°	3861.2	56.4
0°-60°	5976.9	87.3
0°-90°	6849.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6849.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3210	3210	3210	3210	3210	
5°	3214	3241	3223	3223	3206	301
15°	2928	2964	3001	3159	3173	822
25°	2496	2608	2710	2886	2993	1150
35°	1911	2075	2249	2575	2729	1208
45°	1367	1496	1678	2154	2346	1046
55°	802	841	1120	577	511	717
65°	497	513	523	466	415	492
75°	266	270	285	300	275	282
85°	72	72	77	88	105	80
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3209.5	3209.5	3209.5	3209.5	3209.5
2.5°	3252.1	3260.3	3207.8	3206.2	3211.1
5°	3214.4	3240.6	3222.6	3222.6	3206.2
7.5°	3134.1	3178.3	3173.4	3211.1	3193.1
10°	3073.4	3109.5	3109.5	3207.8	3170.1
12.5°	3001.3	3042.3	3065.2	3168.5	3173.4
15°	2927.5	2963.6	3001.3	3158.6	3173.4
17.5°	2821.0	2886.5	2934.1	3088.2	3135.7
20°	2758.7	2798.0	2902.9	3027.5	3089.8
22.5°	2655.4	2712.8	2814.4	2953.7	3045.5
25°	2496.4	2607.9	2709.5	2886.5	2993.1
27.5°	2348.9	2432.5	2642.3	2829.2	2930.8
30°	2240.7	2306.3	2542.3	2745.6	2871.8
32.5°	2109.6	2216.1	2407.9	2663.6	2798.0
35°	1911.2	2075.2	2248.9	2575.1	2729.2
37.5°	1771.9	1885.0	2121.1	2483.3	2625.9
40°	1655.5	1758.8	2006.3	2368.6	2570.2
42.5°	1539.2	1622.8	1862.1	2283.3	2466.9
45°	1367.0	1496.5	1678.5	2153.8	2345.6
47.5°	1186.7	1324.4	1558.8	2044.0	2191.5
50°	1031.0	1140.8	1429.3	1826.0	716.3
52.5°	895.0	996.6	1291.6	660.6	540.9
55°	801.5	840.9	1119.5	577.0	511.4
57.5°	690.1	754.0	939.2	549.1	485.2
60°	618.0	645.8	636.0	521.2	462.2
62.5°	560.6	580.3	577.0	493.4	436.0
65°	496.7	513.1	522.9	465.5	414.7
67.5°	432.7	447.5	462.2	431.1	385.2
70°	377.0	386.8	400.0	390.1	354.1
72.5°	319.6	331.1	339.3	347.5	313.1
75°	265.5	270.5	285.2	300.0	275.4
77.5°	216.4	221.3	231.1	247.5	234.4
80°	162.3	167.2	180.3	193.4	193.4
82.5°	114.7	118.0	126.2	144.2	152.4
85°	72.1	72.1	77.0	88.5	104.9
87.5°	27.9	27.9	32.8	39.3	52.5
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	16.40	17.88	16.77	18.20	18.51	14.20	15.69	14.57	16.00	16.31
	3H	17.93	19.25	18.31	19.58	19.94	16.53	17.86	16.91	18.19	18.55
	4H	18.52	19.76	18.92	20.11	20.49	17.48	18.73	17.88	19.08	19.46
	6H	18.98	20.12	19.39	20.49	20.88	18.27	19.42	18.68	19.78	20.18
	8H	19.12	20.21	19.55	20.60	21.00	18.58	19.67	19.01	20.06	20.46
	12H	19.22	20.26	19.65	20.64	21.07	18.83	19.87	19.26	20.26	20.69
4H	2H	16.95	18.20	17.35	18.54	18.92	15.31	16.55	15.71	16.90	17.28
	3H	18.72	19.75	19.13	20.15	20.55	17.75	18.78	18.16	19.18	19.58
	4H	19.44	20.37	19.88	20.79	21.23	18.82	19.75	19.25	20.16	20.60
	6H	20.03	20.83	20.49	21.28	21.74	19.71	20.51	20.17	20.96	21.42
	8H	20.22	20.97	20.68	21.42	21.88	20.06	20.81	20.52	21.26	21.72
	12H	20.36	21.03	20.84	21.51	21.98	20.35	21.02	20.83	21.50	21.97
8H	4H	19.75	20.50	20.22	20.95	21.42	19.21	19.96	19.67	20.40	20.87
	6H	20.46	21.09	20.96	21.58	22.06	20.24	20.87	20.74	21.36	21.84
	8H	20.72	21.29	21.24	21.80	22.29	20.69	21.25	21.20	21.76	22.25
	12H	20.93	21.43	21.44	21.92	22.49	21.07	21.57	21.58	22.06	22.63
12H	4H	19.79	20.46	20.27	20.94	21.41	19.24	19.91	19.72	20.39	20.87
	6H	20.53	21.09	21.04	21.60	22.09	20.31	20.87	20.82	21.38	21.87
	8H	20.85	21.35	21.36	21.84	22.40	20.81	21.31	21.32	21.81	22.37