

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: P895252

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

Issue Date: 11/11/2024

**Test Information**

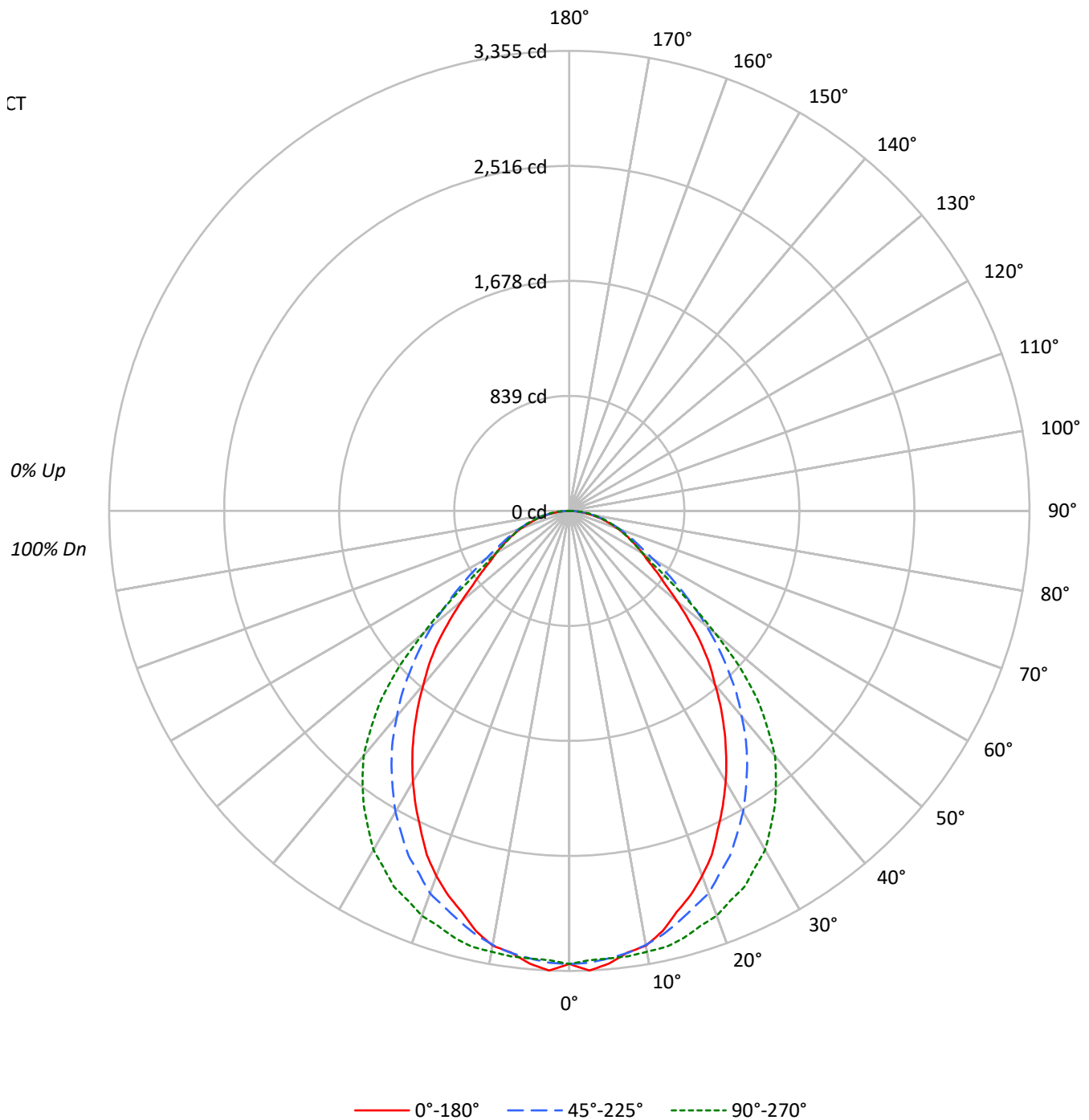
Test Method: LM-79-2019  
Report Number: P895252  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-8SL-LVRF-UNV-L950  
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 5000K C  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6866.0 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23  
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 (Ain): 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75	75	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	65	65	65
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57	57	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50	50	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	45	45	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	40
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	36	36	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33	33	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	30

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

	0°	45°	90°
0°	11722	11722	11722
5°	11803	11668	11668
10°	11599	11581	11760
15°	11119	11378	11845
20°	10697	11209	11864
25°	10035	10862	11837
30°	9340	10382	11698
35°	8550	9793	11326
40°	7655	9055	10806
45°	6793	8198	9715
50°	5652	7217	7662
55°	4814	6079	5569
60°	4364	5023	4401
65°	4110	4399	4096
70°	3867	4081	3992
75°	3603	3886	3815
80°	3300	3580	3686
85°	2866	3147	4128

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 9715 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.8	4.6
10°-20°	880.1	12.8
20°-30°	1278.1	18.6
30°-40°	1423.2	20.7
40°-50°	1257.4	18.3
50°-60°	825.1	12.0
60°-70°	505.2	7.4
70°-80°	294.0	4.3
80°-90°	90.1	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°	2471.0	36.0
0°-40°	3894.2	56.7
0°-60°	5976.7	87.0
0°-90°	6866.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6866.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3304	3304	3304	3304	3304	
5°	3314	3316	3276	3309	3276	312
15°	3027	3061	3098	3219	3225	854
25°	2563	2625	2774	2951	3024	1179
35°	1974	2080	2261	2500	2615	1231
45°	1354	1436	1634	1854	1936	1036
55°	778	833	983	974	900	706
65°	490	498	524	508	488	487
75°	263	266	284	289	278	279
85°	70	74	77	88	101	79
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3303.6	3303.6	3303.6	3303.6	3303.6
2.5°	3355.1	3313.9	3298.5	3313.9	3279.6
5°	3313.9	3315.6	3276.1	3308.8	3276.1
7.5°	3248.6	3271.0	3252.1	3301.9	3276.1
10°	3219.4	3221.1	3214.3	3265.8	3264.1
12.5°	3138.7	3143.8	3162.7	3240.0	3257.2
15°	3027.0	3061.4	3097.5	3219.4	3224.6
17.5°	2939.4	2980.6	3028.7	3159.3	3174.8
20°	2832.9	2850.1	2968.6	3083.7	3142.1
22.5°	2714.4	2747.0	2862.1	3016.7	3075.1
25°	2563.2	2625.0	2774.5	2951.4	3023.6
27.5°	2424.0	2496.2	2650.8	2848.3	2932.5
30°	2279.7	2362.2	2534.0	2728.1	2855.2
32.5°	2130.2	2233.3	2396.5	2619.9	2731.5
35°	1973.9	2080.4	2260.8	2499.6	2614.7
37.5°	1817.6	1920.7	2116.5	2372.5	2475.6
40°	1652.7	1754.0	1955.0	2214.4	2333.0
42.5°	1510.1	1597.7	1803.8	2025.5	2135.4
45°	1353.7	1436.2	1633.8	1853.7	1936.1
47.5°	1181.9	1278.1	1470.6	1650.9	1683.6
50°	1023.9	1123.5	1307.4	1412.1	1388.1
52.5°	884.7	968.9	1137.3	1181.9	1125.3
55°	778.2	833.2	982.7	974.1	900.2
57.5°	680.3	714.7	841.8	793.7	723.3
60°	615.0	630.5	707.8	663.1	620.2
62.5°	553.2	560.0	601.3	577.2	544.6
65°	489.6	498.2	524.0	508.5	487.9
67.5°	431.2	434.6	458.7	455.3	429.5
70°	372.8	377.9	393.4	400.3	384.8
72.5°	316.1	321.3	336.7	343.6	329.8
75°	262.8	266.3	283.5	288.6	278.3
77.5°	211.3	218.2	228.5	237.1	225.1
80°	161.5	164.9	175.2	185.5	180.4
82.5°	113.4	118.5	125.4	139.2	142.6
85°	70.4	73.9	77.3	87.6	101.4
87.5°	27.5	29.2	34.4	37.8	49.8
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	16.08	17.56	16.45	17.88	18.19	16.73	18.21	17.10	18.53	18.84
	3H	17.68	19.01	18.06	19.34	19.70	18.17	19.50	18.55	19.82	20.19
	4H	18.30	19.54	18.70	19.89	20.27	18.77	20.02	19.17	20.37	20.75
	6H	18.77	19.92	19.18	20.28	20.68	19.26	20.41	19.67	20.78	21.17
	8H	18.92	20.01	19.35	20.40	20.81	19.46	20.55	19.89	20.94	21.34
	12H	19.02	20.07	19.45	20.45	20.88	19.63	20.67	20.06	21.05	21.48
4H	2H	16.70	17.95	17.10	18.30	18.67	17.23	18.47	17.63	18.82	19.20
	3H	18.52	19.55	18.93	19.95	20.35	18.92	19.95	19.34	20.35	20.76
	4H	19.26	20.19	19.70	20.60	21.04	19.68	20.60	20.11	21.02	21.46
	6H	19.86	20.66	20.32	21.11	21.57	20.31	21.12	20.77	21.56	22.02
	8H	20.06	20.81	20.52	21.25	21.72	20.57	21.32	21.03	21.77	22.23
	12H	20.20	20.87	20.68	21.35	21.82	20.79	21.46	21.28	21.94	22.42
8H	4H	19.58	20.33	20.05	20.78	21.25	19.95	20.70	20.41	21.15	21.61
	6H	20.30	20.93	20.80	21.42	21.90	20.72	21.35	21.22	21.84	22.32
	8H	20.58	21.14	21.09	21.65	22.14	21.07	21.63	21.58	22.14	22.63
	12H	20.80	21.29	21.31	21.78	22.35	21.39	21.88	21.90	22.38	22.94
12H	4H	19.62	20.29	20.10	20.77	21.24	19.97	20.64	20.45	21.12	21.59
	6H	20.37	20.93	20.88	21.44	21.93	20.77	21.33	21.28	21.84	22.33
	8H	20.70	21.20	21.21	21.69	22.26	21.17	21.67	21.68	22.16	22.73