

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: P895437

Luminaire Tested: 8TMB-SC3-LVR-UNV-CC93-MID-4000K

Issue Date: 11/11/2024

**Test Information**

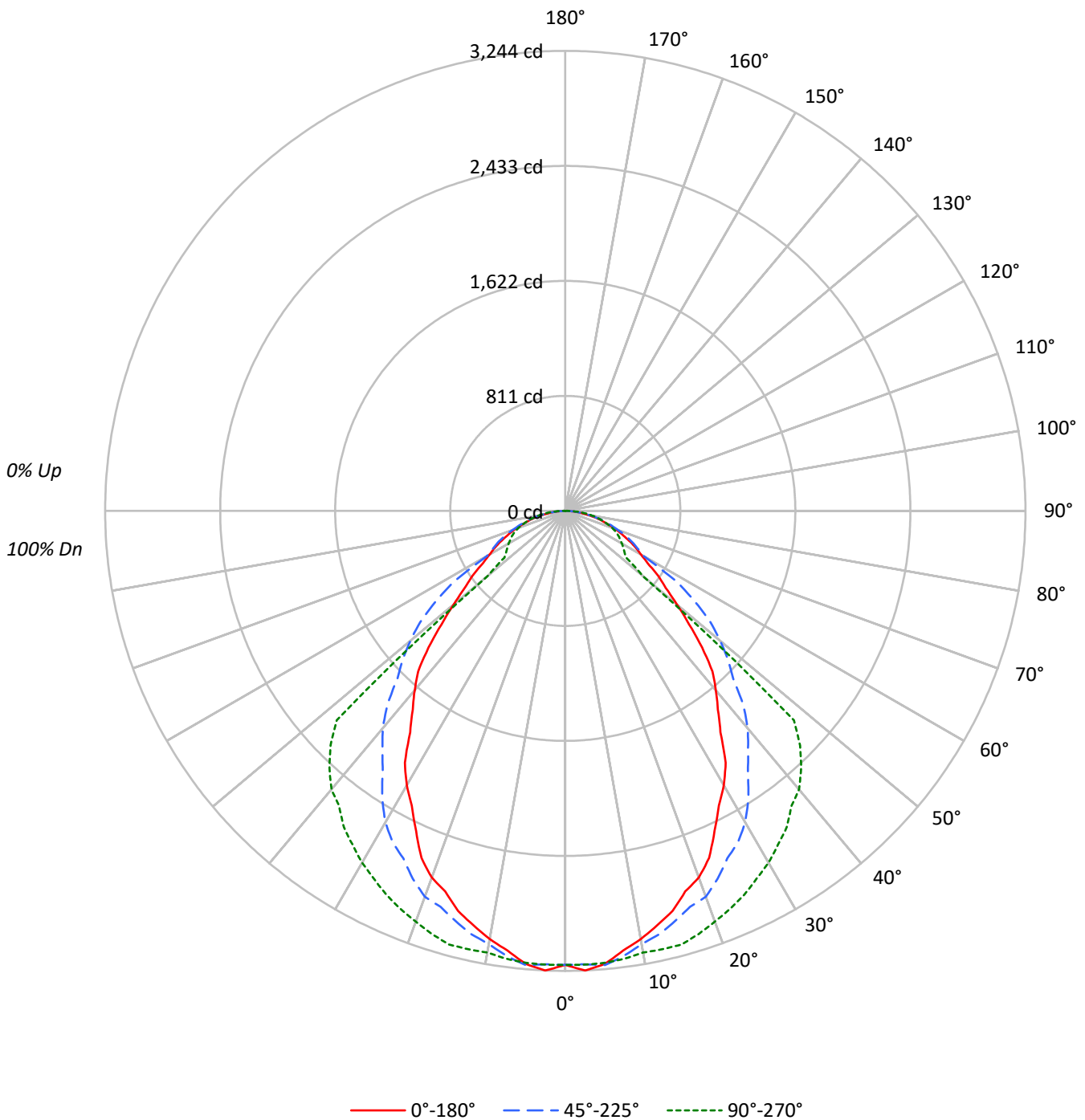
Test Method: LM-79-2019  
Report Number: P895437  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-SC3-LVR-UNV-CC93-MID-4000K  
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 4000K CCT, MID lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6832.0 lumens  
Efficiency: N/A  
Efficacy: 102.1 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): 66.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.9948  
Total Harmonic Distortion (THDi): 5.65231997856897  
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°	11359	11359	11359
5°	11420	11449	11391
10°	11046	11175	11393
15°	10727	10997	11628
20°	10390	10934	11638
25°	9749	10581	11689
30°	9158	10390	11737
35°	8258	9717	11792
40°	7649	9270	11875
45°	6843	8401	11741
50°	5677	7870	3944
55°	4946	6909	3155
60°	4374	4502	3272
65°	4159	4379	3473
70°	3902	4139	3664
75°	3631	3900	3766
80°	3308	3676	3942
85°	2927	3127	4258

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 11741 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	303.7	4.4
10°-20°	854.3	12.5
20°-30°	1256.6	18.4
30°-40°	1437.1	21.0
40°-50°	1360.8	19.9
50°-60°	749.7	11.0
60°-70°	481.4	7.0
70°-80°	297.1	4.3
80°-90°	91.4	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°	2414.5	35.3
0°-40°	3851.6	56.4
0°-60°	5962.1	87.3
0°-90°	6832.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6832.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3202	3202	3202	3202	3202	
5°	3206	3233	3215	3215	3198	301
15°	2920	2956	2994	3151	3166	820
25°	2490	2601	2703	2879	2986	1147
35°	1906	2070	2243	2569	2722	1205
45°	1364	1493	1674	2148	2340	1043
55°	800	839	1117	576	510	715
65°	495	512	522	464	414	490
75°	265	270	284	299	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°	3201.5	3201.5	3201.5	3201.5	3201.5
2.5°	3244.0	3252.2	3199.9	3198.2	3203.1
5°	3206.4	3232.6	3214.6	3214.6	3198.2
7.5°	3126.3	3170.4	3165.5	3203.1	3185.1
10°	3065.8	3101.7	3101.7	3199.9	3162.2
12.5°	2993.8	3034.7	3057.6	3160.6	3165.5
15°	2920.3	2956.2	2993.8	3150.8	3165.5
17.5°	2814.0	2879.4	2926.8	3080.5	3127.9
20°	2751.8	2791.1	2895.7	3020.0	3082.1
22.5°	2648.8	2706.1	2807.4	2946.4	3038.0
25°	2490.2	2601.4	2702.8	2879.4	2985.7
27.5°	2343.1	2426.5	2635.7	2822.1	2923.5
30°	2235.2	2300.6	2536.0	2738.8	2864.7
32.5°	2104.3	2210.6	2401.9	2657.0	2791.1
35°	1906.5	2070.0	2243.3	2568.7	2722.4
37.5°	1767.5	1880.3	2115.8	2477.1	2619.4
40°	1651.4	1754.4	2001.3	2362.7	2563.8
42.5°	1535.3	1618.7	1857.5	2277.7	2460.8
45°	1363.7	1492.8	1674.3	2148.5	2339.8
47.5°	1183.8	1321.1	1555.0	2038.9	2186.1
50°	1028.5	1138.0	1425.8	1821.5	714.5
52.5°	892.8	994.1	1288.4	658.9	539.6
55°	799.6	838.8	1116.8	575.5	510.1
57.5°	688.4	752.1	936.9	547.8	484.0
60°	616.4	644.2	634.4	520.0	461.1
62.5°	559.2	578.8	575.5	492.2	434.9
65°	495.4	511.8	521.6	464.4	413.7
67.5°	431.7	446.4	461.1	430.0	384.2
70°	376.1	385.9	399.0	389.1	353.2
72.5°	318.8	330.3	338.5	346.6	312.3
75°	264.9	269.8	284.5	299.2	274.7
77.5°	215.8	220.7	230.5	246.9	233.8
80°	161.9	166.8	179.9	192.9	192.9
82.5°	114.5	117.7	125.9	143.9	152.1
85°	71.9	71.9	76.8	88.3	104.6
87.5°	27.8	27.8	32.7	39.2	52.3
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	16.39	17.88	16.76	18.19	18.50	14.20	15.68	14.56	15.99	16.31
	3H	17.92	19.25	18.30	19.57	19.94	16.53	17.85	16.90	18.18	18.54
	4H	18.51	19.75	18.91	20.10	20.48	17.48	18.72	17.88	19.07	19.45
	6H	18.97	20.12	19.38	20.48	20.88	18.26	19.41	18.67	19.77	20.17
	8H	19.11	20.20	19.54	20.59	21.00	18.57	19.66	19.00	20.05	20.46
	12H	19.21	20.25	19.64	20.64	21.07	18.82	19.86	19.25	20.25	20.68
4H	2H	16.94	18.19	17.34	18.54	18.91	15.30	16.54	15.70	16.89	17.27
	3H	18.72	19.74	19.13	20.14	20.55	17.75	18.77	18.16	19.17	19.58
	4H	19.44	20.36	19.87	20.78	21.22	18.81	19.74	19.24	20.15	20.59
	6H	20.02	20.83	20.48	21.27	21.73	19.70	20.50	20.16	20.95	21.41
	8H	20.21	20.96	20.67	21.41	21.88	20.05	20.80	20.51	21.25	21.72
	12H	20.35	21.02	20.83	21.50	21.97	20.34	21.01	20.82	21.49	21.96
8H	4H	19.74	20.50	20.21	20.94	21.41	19.20	19.95	19.66	20.40	20.86
	6H	20.45	21.08	20.95	21.57	22.05	20.23	20.86	20.73	21.35	21.83
	8H	20.72	21.28	21.23	21.79	22.28	20.68	21.24	21.19	21.75	22.24
	12H	20.92	21.42	21.43	21.92	22.48	21.06	21.56	21.57	22.05	22.62
12H	4H	19.78	20.45	20.26	20.93	21.40	19.23	19.91	19.72	20.38	20.86
	6H	20.52	21.08	21.03	21.59	22.08	20.30	20.86	20.81	21.37	21.86
	8H	20.84	21.34	21.35	21.83	22.39	20.81	21.30	21.32	21.80	22.36