

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: P895140

Luminaire Tested: 8TMB-6SL-LVRF-UNV-L950

Issue Date: 11/11/2024

**Test Information**

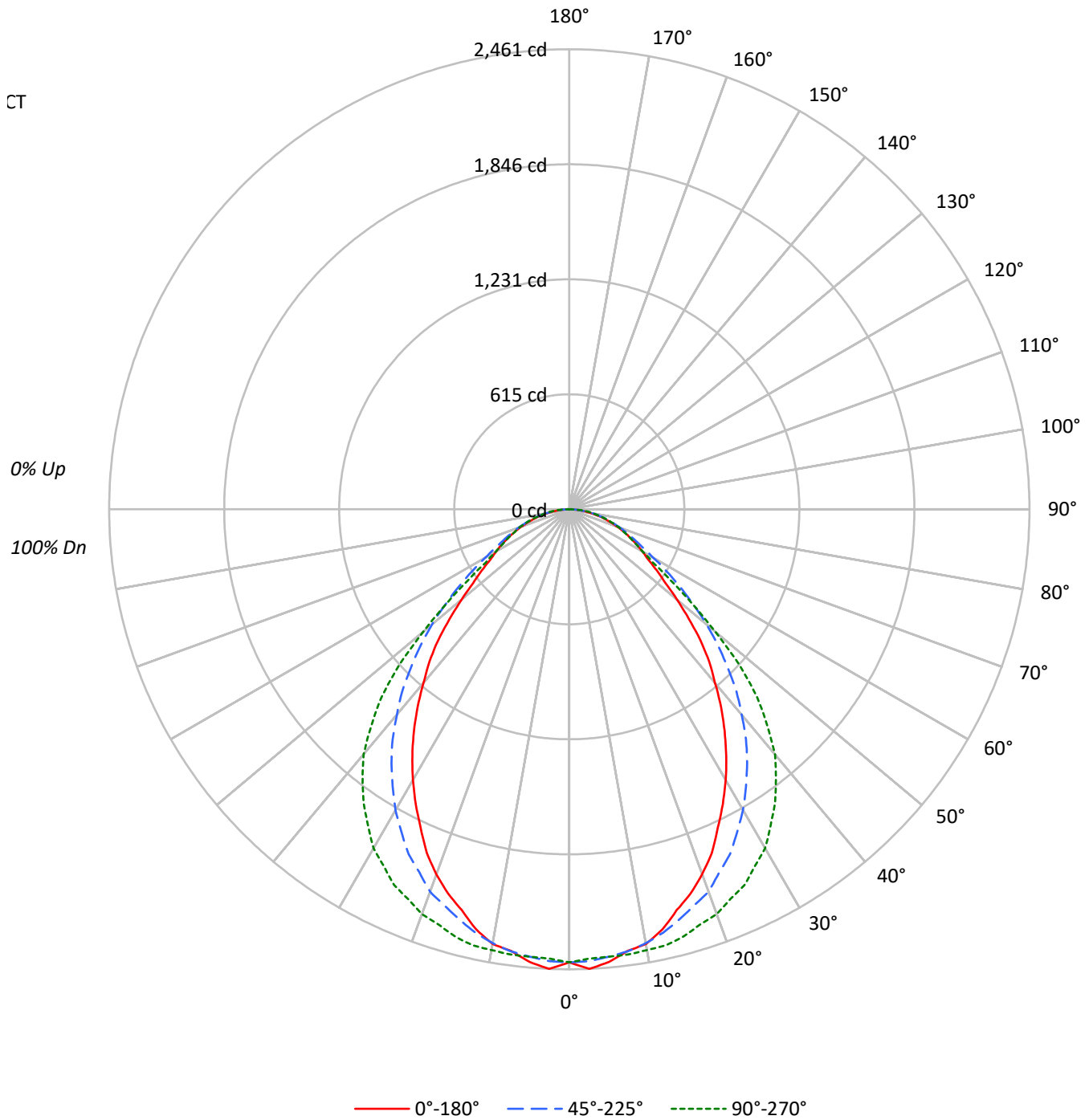
Test Method: LM-79-2019  
Report Number: P895140  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-6SL-LVRF-UNV-L950  
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 5000K C  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5036.0 lumens  
Efficiency: N/A  
Efficacy: 119.3 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): 42.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 5.51  
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	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	40
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	38	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	30

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

	0°	45°	90°
0°	8597	8597	8597
5°	8657	8558	8558
10°	8507	8494	8626
15°	8155	8345	8688
20°	7845	8222	8702
25°	7360	7967	8682
30°	6851	7615	8580
35°	6271	7182	8307
40°	5615	6641	7926
45°	4982	6013	7126
50°	4145	5293	5620
55°	3531	4459	4085
60°	3201	3684	3228
65°	3015	3226	3005
70°	2836	2994	2929
75°	2643	2850	2798
80°	2419	2626	2703
85°	2105	2308	3025

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7126 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.4	4.6
10°-20°	645.5	12.8
20°-30°	937.5	18.6
30°-40°	1043.9	20.7
40°-50°	922.3	18.3
50°-60°	605.2	12.0
60°-70°	370.6	7.4
70°-80°	215.6	4.3
80°-90°	66.1	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°	1812.4	36.0
0°-40°	2856.3	56.7
0°-60°	4383.7	87.0
0°-90°	5036.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5036.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2423	2423	2423	2423	2423	
5°	2431	2432	2403	2427	2403	229
15°	2220	2245	2272	2361	2365	626
25°	1880	1925	2035	2165	2218	865
35°	1448	1526	1658	1833	1918	903
45°	993	1053	1198	1360	1420	760
55°	571	611	721	714	660	518
65°	359	365	384	373	358	357
75°	193	195	208	212	204	205
85°	52	54	57	64	74	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2423.1	2423.1	2423.1	2423.1	2423.1
2.5°	2460.9	2430.7	2419.3	2430.7	2405.5
5°	2430.7	2431.9	2402.9	2426.9	2402.9
7.5°	2382.8	2399.2	2385.3	2421.8	2402.9
10°	2361.3	2362.6	2357.6	2395.4	2394.1
12.5°	2302.1	2305.9	2319.8	2376.5	2389.1
15°	2220.2	2245.4	2271.9	2361.3	2365.1
17.5°	2156.0	2186.2	2221.5	2317.2	2328.6
20°	2077.8	2090.4	2177.4	2261.8	2304.6
22.5°	1990.9	2014.8	2099.3	2212.7	2255.5
25°	1880.0	1925.4	2035.0	2164.8	2217.7
27.5°	1777.9	1830.9	1944.3	2089.2	2150.9
30°	1672.1	1732.6	1858.6	2001.0	2094.2
32.5°	1562.5	1638.1	1757.8	1921.6	2003.5
35°	1447.8	1525.9	1658.2	1833.4	1917.8
37.5°	1333.1	1408.7	1552.4	1740.1	1815.7
40°	1212.2	1286.5	1433.9	1624.2	1711.2
42.5°	1107.6	1171.9	1323.1	1485.6	1566.3
45°	992.9	1053.4	1198.3	1359.6	1420.1
47.5°	866.9	937.5	1078.6	1210.9	1234.9
50°	751.0	824.1	958.9	1035.8	1018.1
52.5°	648.9	710.7	834.2	866.9	825.3
55°	570.8	611.1	720.8	714.5	660.3
57.5°	499.0	524.2	617.4	582.1	530.5
60°	451.1	462.4	519.1	486.4	454.9
62.5°	405.7	410.8	441.0	423.4	399.4
65°	359.1	365.4	384.3	373.0	357.9
67.5°	316.3	318.8	336.4	333.9	315.0
70°	273.4	277.2	288.6	293.6	282.3
72.5°	231.9	235.6	247.0	252.0	241.9
75°	192.8	195.3	207.9	211.7	204.1
77.5°	155.0	160.0	167.6	173.9	165.1
80°	118.4	121.0	128.5	136.1	132.3
82.5°	83.2	86.9	92.0	102.1	104.6
85°	51.7	54.2	56.7	64.3	74.3
87.5°	20.2	21.4	25.2	27.7	36.5
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	15.00	16.49	15.37	16.80	17.11	15.66	17.14	16.02	17.45	17.77
	3H	16.61	17.93	16.98	18.26	18.62	17.09	18.42	17.47	18.75	19.11
	4H	17.22	18.46	17.62	18.81	19.19	17.70	18.94	18.10	19.29	19.67
	6H	17.69	18.84	18.11	19.21	19.60	18.18	19.33	18.60	19.70	20.09
	8H	17.85	18.94	18.27	19.33	19.73	18.38	19.47	18.81	19.86	20.26
	12H	17.95	18.99	18.38	19.37	19.80	18.55	19.59	18.98	19.98	20.40
4H	2H	15.63	16.87	16.03	17.22	17.60	16.15	17.39	16.55	17.74	18.12
	3H	17.45	18.48	17.86	18.88	19.28	17.85	18.88	18.26	19.28	19.68
	4H	18.19	19.11	18.62	19.53	19.97	18.60	19.53	19.03	19.94	20.38
	6H	18.78	19.59	19.24	20.03	20.49	19.24	20.04	19.69	20.48	20.95
	8H	18.98	19.73	19.44	20.18	20.65	19.49	20.24	19.96	20.69	21.16
	12H	19.12	19.79	19.60	20.27	20.74	19.72	20.39	20.20	20.87	21.34
8H	4H	18.50	19.26	18.97	19.70	20.17	18.87	19.62	19.34	20.07	20.54
	6H	19.23	19.85	19.73	20.34	20.82	19.65	20.27	20.14	20.76	21.24
	8H	19.50	20.06	20.02	20.57	21.06	19.99	20.55	20.51	21.06	21.55
	12H	19.72	20.22	20.23	20.71	21.27	20.31	20.81	20.82	21.30	21.86
12H	4H	18.54	19.21	19.02	19.69	20.16	18.89	19.56	19.37	20.04	20.51
	6H	19.29	19.85	19.81	20.36	20.85	19.69	20.25	20.21	20.76	21.25
	8H	19.63	20.12	20.14	20.61	21.18	20.10	20.59	20.61	21.09	21.65