

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: P895148

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

Issue Date: 11/11/2024

**Test Information**

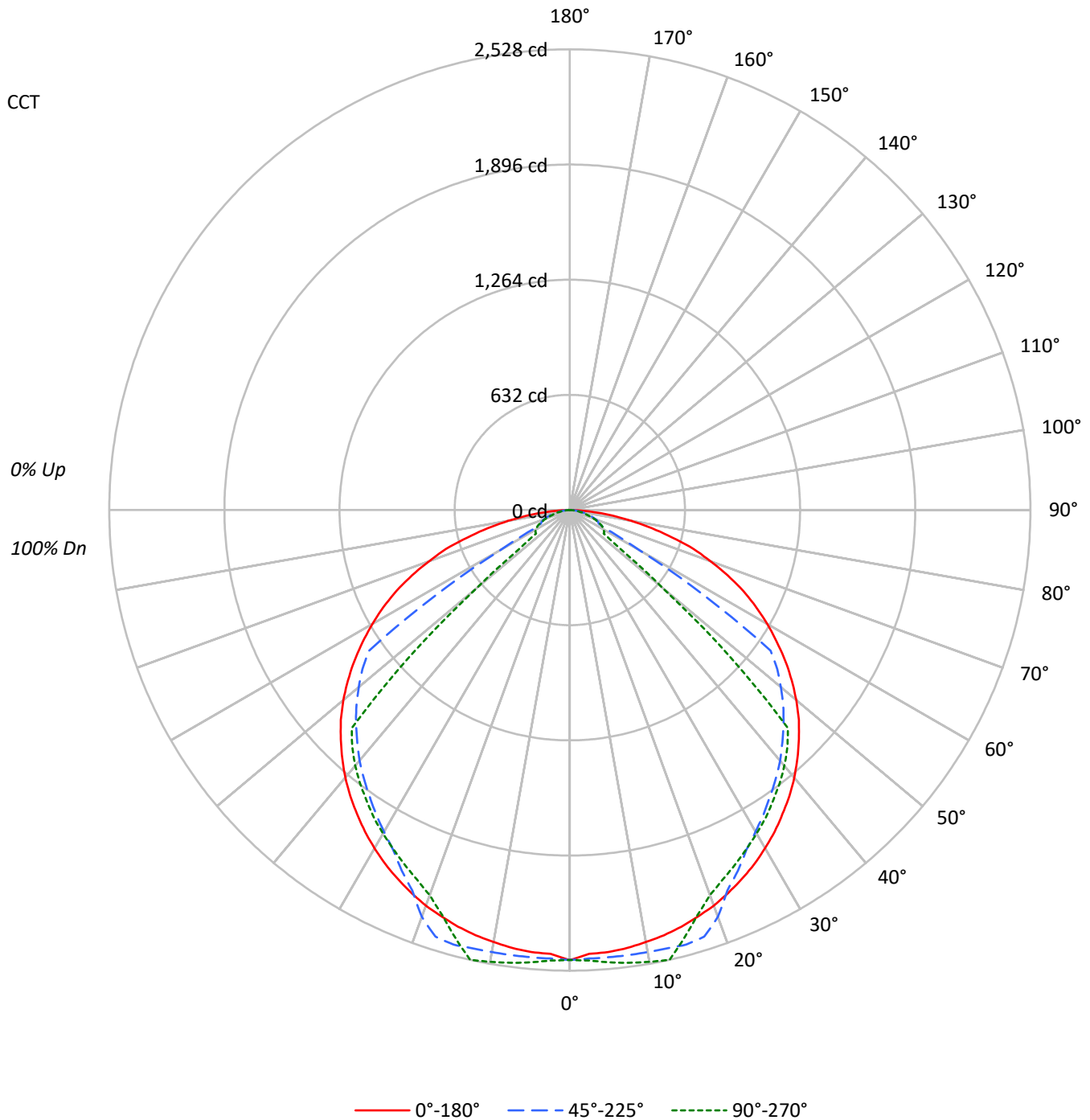
Test Method: LM-79-2019  
Report Number: P895148  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-6SL-RFLW-UNV-L950  
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 5000K  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6022.0 lumens  
Efficiency: N/A  
Efficacy: 142.7 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.24 / 1.38  
Luminous Opening: Rectangular (W 0.21' x L: 7.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 42.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	100	
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	89	87	
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	77	75	
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	66	64	
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	58	56	
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	51	49	
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	45	43	
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	40	38	
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	36	35	
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	33	31	
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	30	28	

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

	0°	45°	90°
0°	15989	15989	15989
5°	15829	16013	16197
10°	15826	16198	16551
15°	15869	16553	16286
20°	15922	16370	15492
25°	15962	15598	15335
30°	16027	15244	15328
35°	16093	15153	15377
40°	16204	15175	15486
45°	16284	15195	15506
50°	16344	15232	6703
55°	16303	15185	2557
60°	16208	5794	2787
65°	16096	2691	2864
70°	15546	2895	2681
75°	14524	2762	2337
80°	12776	2428	2006
85°	10097	2103	1687

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 16344 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.8	3.9
10°-20°	684.7	11.4
20°-30°	1021.6	17.0
30°-40°	1238.3	20.6
40°-50°	1267.9	21.1
50°-60°	843.2	14.0
60°-70°	480.6	8.0
70°-80°	201.9	3.4
80°-90°	48.1	0.8
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°	1942.0	32.2
0°-40°	3180.3	52.8
0°-60°	5291.4	87.9
0°-90°	6022.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6022.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2469	2469	2469	2469	2469	
5°	2435	2483	2463	2469	2492	232
15°	2367	2432	2469	2461	2429	669
25°	2234	2342	2183	2135	2146	1031
35°	2036	2073	1917	1925	1945	1275
45°	1778	1671	1659	1679	1693	1372
55°	1444	1322	1345	294	226	1290
65°	1050	940	176	187	187	1034
75°	580	122	110	96	93	616
85°	136	34	28	23	23	163
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2469.1	2469.1	2469.1	2469.1	2469.1
2.5°	2437.9	2488.9	2463.4	2466.2	2474.7
5°	2435.1	2483.2	2463.4	2469.1	2491.7
7.5°	2423.8	2474.7	2463.4	2480.4	2505.9
10°	2406.8	2466.2	2463.4	2491.7	2517.2
12.5°	2389.8	2449.2	2463.4	2505.9	2528.5
15°	2367.1	2432.3	2469.1	2460.6	2429.4
17.5°	2338.8	2415.3	2454.9	2333.2	2330.3
20°	2310.5	2392.6	2375.6	2259.5	2248.2
22.5°	2273.7	2370.0	2259.5	2180.3	2194.4
25°	2234.1	2341.6	2183.1	2134.9	2146.3
27.5°	2191.6	2313.3	2101.0	2084.0	2098.1
30°	2143.4	2273.7	2038.7	2033.0	2050.0
32.5°	2092.5	2197.2	1979.2	1982.0	2001.9
35°	2035.8	2072.7	1916.9	1925.4	1945.2
37.5°	1979.2	1956.6	1857.5	1871.6	1891.4
40°	1916.9	1866.0	1795.2	1809.3	1832.0
42.5°	1849.0	1769.7	1727.2	1747.0	1766.9
45°	1778.2	1670.6	1659.3	1679.1	1693.2
47.5°	1704.6	1585.6	1588.5	1602.6	1200.6
50°	1622.4	1500.7	1512.0	1047.7	665.4
52.5°	1534.7	1412.9	1435.6	583.3	336.9
55°	1444.1	1322.3	1345.0	294.5	226.5
57.5°	1347.8	1231.7	877.8	212.4	223.7
60°	1251.5	1135.4	447.4	209.5	215.2
62.5°	1152.4	1039.2	212.4	201.0	203.9
65°	1050.5	940.1	175.6	186.9	186.9
67.5°	937.2	835.3	167.1	167.1	164.2
70°	821.1	693.7	152.9	144.4	141.6
72.5°	713.5	266.2	133.1	118.9	116.1
75°	580.5	121.8	110.4	96.3	93.4
77.5°	461.5	101.9	87.8	76.5	73.6
80°	342.6	79.3	65.1	56.6	53.8
82.5°	237.8	53.8	45.3	36.8	36.8
85°	135.9	34.0	28.3	22.7	22.7
87.5°	53.8	17.0	14.2	8.5	8.5
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	22.56	24.08	22.92	24.39	24.71	10.32	11.84	10.69	12.16	12.47
	3H	24.58	25.93	24.95	26.26	26.62	12.64	14.00	13.01	14.32	14.69
	4H	25.04	26.31	25.44	26.66	27.04	13.35	14.62	13.75	14.97	15.35
	6H	25.45	26.62	25.86	26.99	27.38	13.83	15.01	14.25	15.37	15.76
	8H	25.59	26.71	26.02	27.10	27.50	13.97	15.09	14.40	15.48	15.88
	12H	25.69	26.76	26.12	27.14	27.57	14.06	15.13	14.49	15.51	15.94
4H	2H	22.40	23.67	22.80	24.02	24.40	11.12	12.39	11.52	12.74	13.12
	3H	24.60	25.65	25.01	26.05	26.45	13.63	14.68	14.04	15.08	15.48
	4H	25.05	25.99	25.48	26.40	26.84	14.45	15.39	14.88	15.81	16.25
	6H	25.51	26.33	25.97	26.77	27.23	15.04	15.86	15.50	16.30	16.76
	8H	25.71	26.47	26.17	26.91	27.38	15.21	15.97	15.68	16.42	16.89
	12H	25.86	26.54	26.34	27.02	27.49	15.33	16.01	15.81	16.49	16.96
8H	4H	24.97	25.73	25.43	26.17	26.64	15.29	16.05	15.75	16.50	16.96
	6H	25.43	26.05	25.92	26.55	27.02	15.91	16.54	16.41	17.03	17.51
	8H	25.63	26.19	26.14	26.70	27.19	16.11	16.68	16.63	17.19	17.68
	12H	25.81	26.31	26.32	26.80	27.37	16.27	16.77	16.78	17.26	17.83
12H	4H	24.94	25.62	25.42	26.09	26.57	15.36	16.04	15.84	16.52	16.99
	6H	25.38	25.95	25.89	26.46	26.94	16.01	16.57	16.52	17.08	17.57
	8H	25.60	26.10	26.11	26.60	27.16	16.26	16.76	16.77	17.25	17.82