

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: P895139

Luminaire Tested: 8TMB-6SL-LVRF-UNV-L940

Issue Date: 11/11/2024

**Test Information**

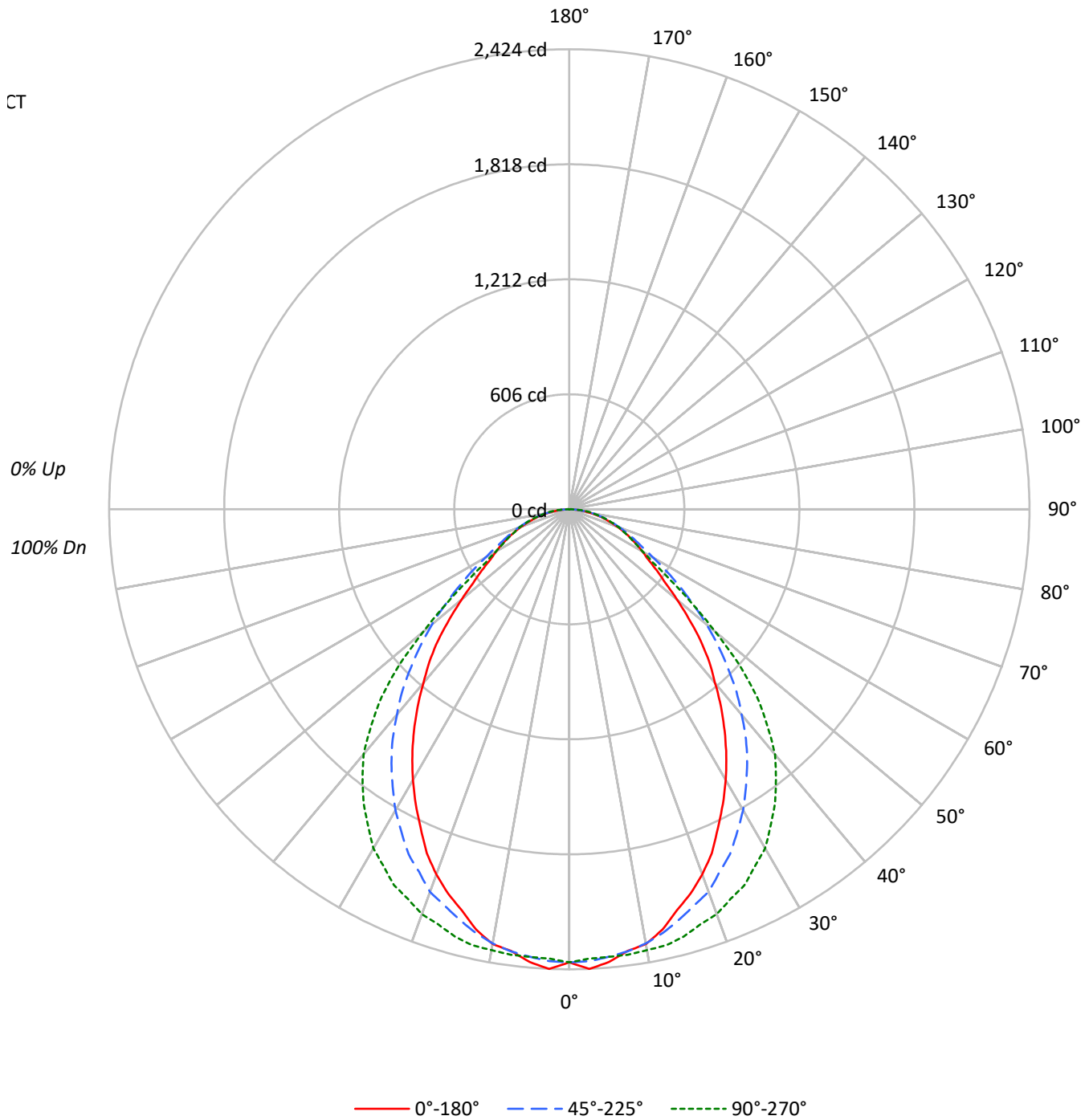
Test Method: LM-79-2019  
Report Number: P895139  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-6SL-LVRF-UNV-L940  
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 4000K C  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4961.0 lumens  
Efficiency: N/A  
Efficacy: 117.6 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	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	70	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	60	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	56	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	44	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

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

	0°	45°	90°
0°	8469	8469	8469
5°	8528	8431	8431
10°	8381	8368	8497
15°	8034	8221	8558
20°	7729	8099	8572
25°	7250	7848	8553
30°	6749	7501	8452
35°	6178	7075	8183
40°	5531	6543	7808
45°	4908	5924	7019
50°	4084	5214	5536
55°	3478	4392	4023
60°	3154	3629	3180
65°	2970	3179	2959
70°	2795	2949	2884
75°	2603	2808	2757
80°	2385	2587	2662
85°	2072	2276	2980

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7019 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.0	4.6
10°-20°	635.9	12.8
20°-30°	923.5	18.6
30°-40°	1028.4	20.7
40°-50°	908.5	18.3
50°-60°	596.1	12.0
60°-70°	365.1	7.4
70°-80°	212.4	4.3
80°-90°	65.1	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°	1785.4	36.0
0°-40°	2813.8	56.7
0°-60°	4318.4	87.0
0°-90°	4961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4961.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2387	2387	2387	2387	2387	
5°	2394	2396	2367	2391	2367	226
15°	2187	2212	2238	2326	2330	617
25°	1852	1897	2005	2132	2185	852
35°	1426	1503	1634	1806	1889	890
45°	978	1038	1180	1339	1399	748
55°	562	602	710	704	650	510
65°	354	360	379	367	352	352
75°	190	192	205	208	201	201
85°	51	53	56	63	73	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2387.0	2387.0	2387.0	2387.0	2387.0
2.5°	2424.2	2394.5	2383.3	2394.5	2369.6
5°	2394.5	2395.7	2367.1	2390.7	2367.1
7.5°	2347.3	2363.4	2349.8	2385.8	2367.1
10°	2326.2	2327.4	2322.5	2359.7	2358.5
12.5°	2267.8	2271.6	2285.2	2341.1	2353.5
15°	2187.2	2212.0	2238.1	2326.2	2329.9
17.5°	2123.9	2153.6	2188.4	2282.7	2293.9
20°	2046.9	2059.3	2145.0	2228.1	2270.3
22.5°	1961.2	1984.8	2068.0	2179.7	2221.9
25°	1852.0	1896.7	2004.7	2132.5	2184.7
27.5°	1751.5	1803.6	1915.3	2058.1	2118.9
30°	1647.2	1706.8	1830.9	1971.2	2063.0
32.5°	1539.2	1613.7	1731.6	1893.0	1973.7
35°	1426.2	1503.2	1633.5	1806.1	1889.2
37.5°	1313.3	1387.8	1529.3	1714.2	1788.7
40°	1194.1	1267.4	1412.6	1600.0	1685.7
42.5°	1091.1	1154.4	1303.4	1463.5	1542.9
45°	978.1	1037.7	1180.5	1339.4	1398.9
47.5°	854.0	923.5	1062.5	1192.9	1216.5
50°	739.8	811.8	944.6	1020.3	1003.0
52.5°	639.3	700.1	821.7	854.0	813.0
55°	562.3	602.0	710.0	703.8	650.4
57.5°	491.6	516.4	608.2	573.5	522.6
60°	444.4	455.6	511.4	479.1	448.1
62.5°	399.7	404.7	434.5	417.1	393.5
65°	353.8	360.0	378.6	367.4	352.5
67.5°	311.6	314.0	331.4	328.9	310.3
70°	269.4	273.1	284.3	289.2	278.0
72.5°	228.4	232.1	243.3	248.3	238.3
75°	189.9	192.4	204.8	208.5	201.1
77.5°	152.7	157.6	165.1	171.3	162.6
80°	116.7	119.2	126.6	134.1	130.3
82.5°	81.9	85.6	90.6	100.5	103.0
85°	50.9	53.4	55.9	63.3	73.2
87.5°	19.9	21.1	24.8	27.3	36.0
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	14.95	16.43	15.32	16.75	17.06	15.60	17.09	15.97	17.40	17.71
	3H	16.55	17.88	16.93	18.21	18.57	17.04	18.37	17.42	18.69	19.06
	4H	17.17	18.41	17.57	18.76	19.14	17.65	18.89	18.05	19.24	19.62
	6H	17.64	18.79	18.05	19.16	19.55	18.13	19.28	18.54	19.65	20.04
	8H	17.79	18.88	18.22	19.27	19.68	18.33	19.42	18.76	19.81	20.21
	12H	17.89	18.94	18.32	19.32	19.75	18.50	19.54	18.93	19.92	20.35
4H	2H	15.57	16.82	15.98	17.17	17.55	16.10	17.34	16.50	17.69	18.07
	3H	17.39	18.42	17.81	18.82	19.23	17.80	18.82	18.21	19.22	19.63
	4H	18.13	19.06	18.57	19.48	19.91	18.55	19.47	18.98	19.89	20.33
	6H	18.73	19.54	19.19	19.98	20.44	19.18	19.99	19.64	20.43	20.89
	8H	18.93	19.68	19.39	20.13	20.59	19.44	20.19	19.90	20.64	21.10
	12H	19.07	19.74	19.55	20.22	20.69	19.66	20.33	20.15	20.81	21.29
8H	4H	18.45	19.20	18.92	19.65	20.12	18.82	19.57	19.28	20.02	20.48
	6H	19.18	19.80	19.67	20.29	20.77	19.59	20.22	20.09	20.71	21.19
	8H	19.45	20.01	19.96	20.52	21.01	19.94	20.50	20.45	21.01	21.50
	12H	19.67	20.16	20.18	20.66	21.22	20.26	20.75	20.77	21.25	21.81
12H	4H	18.49	19.16	18.97	19.64	20.11	18.84	19.51	19.32	19.99	20.46
	6H	19.24	19.80	19.76	20.31	20.80	19.64	20.20	20.15	20.71	21.20
	8H	19.57	20.07	20.08	20.56	21.13	20.04	20.54	20.55	21.03	21.60