

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: P895017

Luminaire Tested: 8TMB-4SL-LVRA-UNV-L930

Issue Date: 11/11/2024

**Test Information**

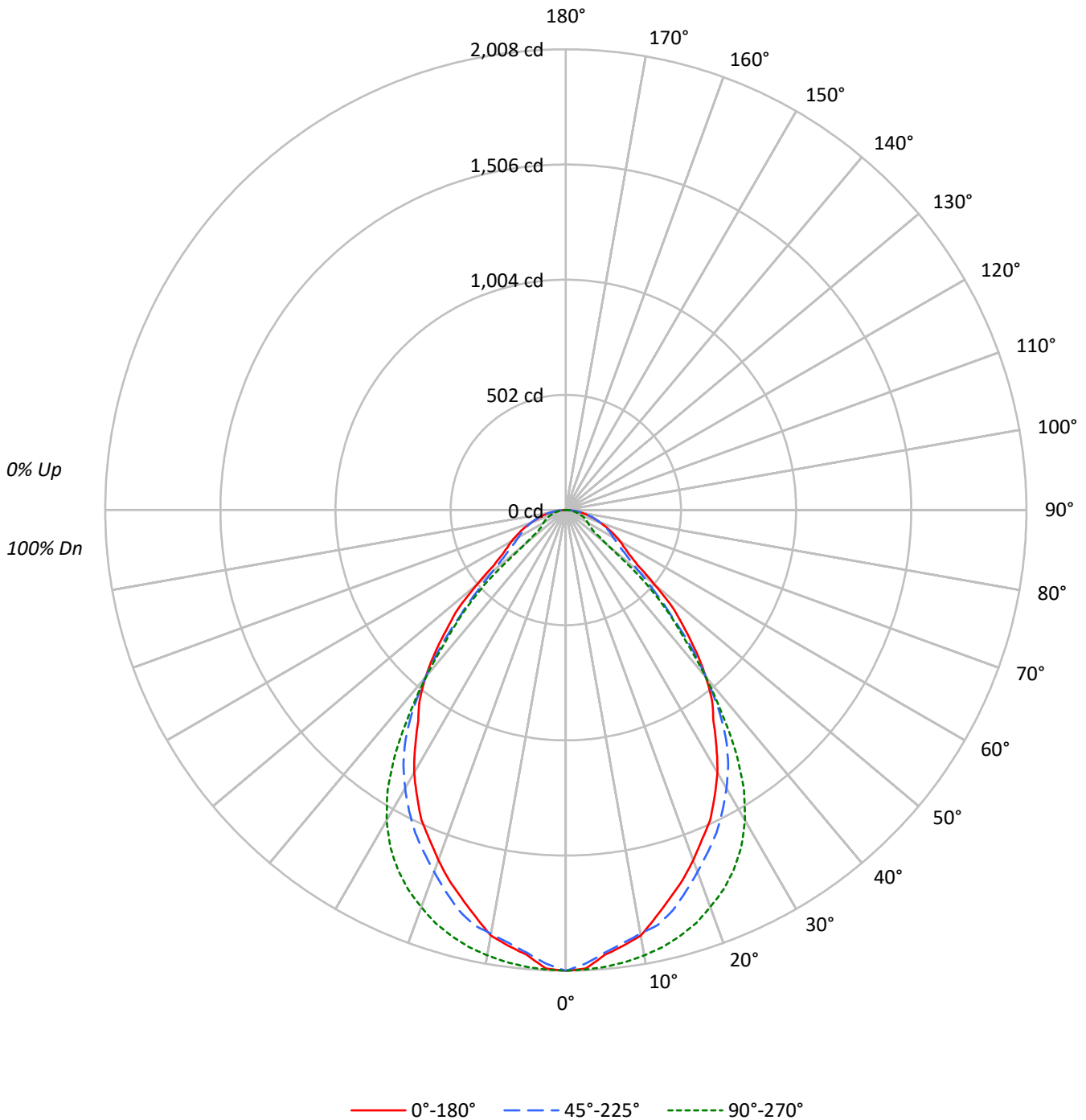
Test Method: LM-79-2019  
Report Number: P895017  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-4SL-LVRA-UNV-L930  
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 3000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3259.0 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12  
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 27.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 4.5  
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	37	35

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

	0°	45°	90°
0°	7125	7125	7125
5°	6933	6901	7117
10°	6785	6755	7101
15°	6435	6633	7060
20°	6130	6337	6953
25°	5831	6080	6776
30°	5418	5740	6397
35°	4858	5275	5611
40°	4401	4411	4387
45°	3680	3259	3179
50°	2780	2294	1300
55°	2091	1835	820
60°	1943	1690	790
65°	1808	1686	791
70°	1654	1654	778
75°	1568	1611	753
80°	1449	1522	772
85°	1266	1327	843

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 3765 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.5	5.7
10°-20°	511.1	15.7
20°-30°	724.7	22.2
30°-40°	746.7	22.9
40°-50°	521.5	16.0
50°-60°	250.2	7.7
60°-70°	175.6	5.4
70°-80°	109.8	3.4
80°-90°	33.9	1.0
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°	1421.3	43.6
0°-40°	2168.0	66.5
0°-60°	2939.7	90.2
0°-90°	3259.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3259.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2008	2008	2008	2008	2008	
5°	1946	1944	1938	1988	1998	184
15°	1752	1765	1806	1858	1922	493
25°	1490	1504	1553	1658	1731	681
35°	1122	1152	1218	1243	1295	707
45°	733	750	650	616	634	565
55°	338	321	297	190	132	317
65°	215	201	201	153	94	213
75°	114	113	118	101	55	120
85°	31	31	33	32	21	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2008.1	2008.1	2008.1	2008.1	2008.1
2.5°	2000.3	1994.1	1979.1	2006.5	2004.4
5°	1946.5	1943.9	1937.7	1988.4	1998.2
7.5°	1915.9	1910.8	1903.5	1959.4	1986.8
10°	1883.3	1889.5	1875.0	1926.3	1970.8
12.5°	1816.0	1832.6	1852.3	1892.1	1951.1
15°	1751.9	1764.8	1805.7	1857.5	1922.1
17.5°	1691.8	1706.8	1742.0	1819.7	1888.5
20°	1623.5	1644.2	1678.4	1777.8	1841.4
22.5°	1553.1	1572.3	1615.2	1721.9	1792.8
25°	1489.5	1504.5	1553.1	1658.2	1730.7
27.5°	1405.1	1433.1	1479.1	1580.6	1656.6
30°	1322.3	1346.1	1401.0	1486.4	1561.4
32.5°	1222.4	1257.1	1317.7	1382.9	1445.5
35°	1121.5	1152.0	1217.8	1243.1	1295.4
37.5°	1048.0	1056.3	1093.6	1090.5	1120.0
40°	950.2	966.8	952.3	913.5	947.1
42.5°	844.6	864.3	805.8	760.8	772.7
45°	733.4	750.4	649.5	616.4	633.5
47.5°	637.1	635.5	523.8	501.5	477.7
50°	503.6	520.1	415.6	374.2	235.5
52.5°	393.3	399.5	342.6	239.1	154.7
55°	338.0	321.4	296.6	189.9	132.5
57.5°	300.2	279.5	262.9	176.5	121.1
60°	273.8	250.5	238.1	167.7	111.3
62.5°	243.8	225.6	221.0	159.9	102.5
65°	215.3	201.3	200.8	152.7	94.2
67.5°	186.8	179.1	181.1	143.9	84.9
70°	159.4	157.8	159.4	132.5	75.0
72.5°	136.1	134.6	138.7	118.0	64.2
75°	114.4	112.8	117.5	101.4	54.9
77.5°	91.1	92.1	95.2	84.4	46.1
80°	70.9	70.9	74.5	66.2	37.8
82.5°	50.7	51.2	53.3	48.6	29.5
85°	31.1	31.1	32.6	32.1	20.7
87.5°	10.4	11.9	14.0	15.0	10.4
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	12.47	13.82	12.83	14.14	14.45	8.80	10.16	9.17	10.47	10.78
	3H	14.21	15.41	14.59	15.74	16.11	10.78	11.98	11.16	12.31	12.68
	4H	14.88	16.01	15.28	16.36	16.74	11.48	12.61	11.88	12.96	13.34
	6H	15.39	16.42	15.80	16.79	17.19	12.01	13.04	12.42	13.41	13.81
	8H	15.56	16.54	15.99	16.93	17.34	12.19	13.18	12.62	13.57	13.97
	12H	15.67	16.61	16.10	16.99	17.42	12.33	13.27	12.76	13.66	14.09
4H	2H	13.00	14.13	13.40	14.48	14.86	10.42	11.55	10.83	11.90	12.28
	3H	14.98	15.91	15.39	16.31	16.71	12.60	13.53	13.01	13.94	14.34
	4H	15.78	16.61	16.21	17.03	17.47	13.48	14.32	13.92	14.74	15.18
	6H	16.42	17.15	16.88	17.59	18.06	14.12	14.85	14.59	15.29	15.76
	8H	16.64	17.32	17.11	17.76	18.23	14.33	15.01	14.80	15.46	15.93
	12H	16.80	17.40	17.28	17.88	18.35	14.49	15.09	14.98	15.57	16.05
8H	4H	16.06	16.74	16.53	17.19	17.66	14.13	14.81	14.60	15.25	15.72
	6H	16.85	17.40	17.35	17.90	18.38	14.99	15.55	15.49	16.04	16.52
	8H	17.15	17.65	17.67	18.16	18.65	15.32	15.82	15.84	16.33	16.82
	12H	17.38	17.82	17.90	18.32	18.89	15.58	16.02	16.10	16.52	17.09
12H	4H	16.08	16.68	16.56	17.16	17.63	14.20	14.80	14.69	15.28	15.76
	6H	16.90	17.40	17.42	17.91	18.40	15.13	15.63	15.65	16.14	16.63
	8H	17.26	17.70	17.78	18.20	18.77	15.54	15.98	16.05	16.48	17.05