

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: P895020

Luminaire Tested: 8TMB-4SL-LVRA-UNV-L950

Issue Date: 11/11/2024

**Test Information**

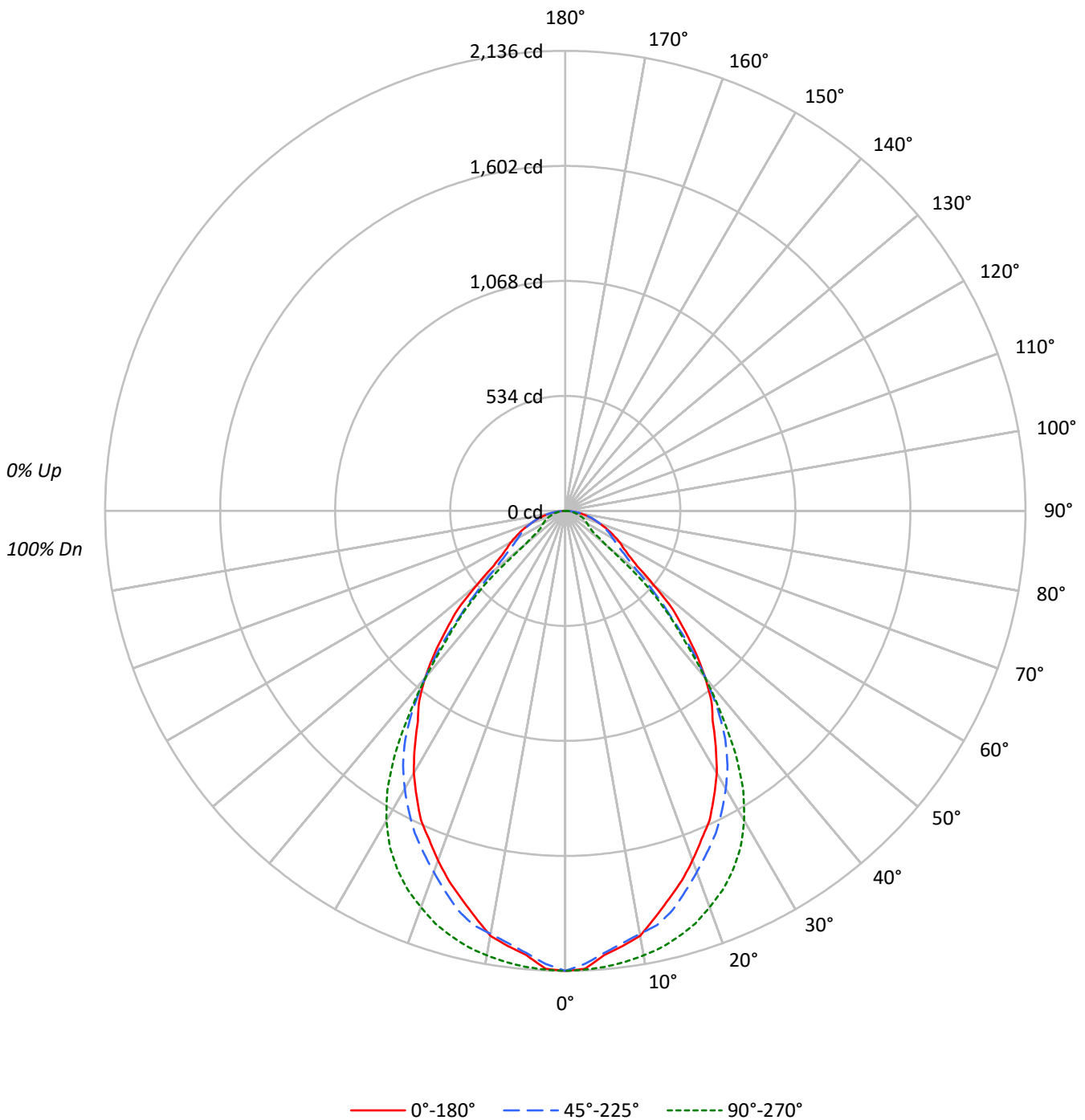
Test Method: LM-79-2019  
Report Number: P895020  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-4SL-LVRA-UNV-L950  
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 5000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3466.0 lumens  
Efficiency: N/A  
Efficacy: 125.6 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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CATALOG NUMBER: 8TMB-4SL-LVRA-UNV-L950

### 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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	88	
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	78	
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	69	
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	62	
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	55	
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	50	
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	45	
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	41	
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	38	
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	35	

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

	0°	45°	90°
0°	7577	7577	7577
5°	7373	7340	7569
10°	7217	7184	7552
15°	6844	7054	7509
20°	6519	6740	7395
25°	6202	6467	7206
30°	5762	6105	6804
35°	5166	5610	5967
40°	4681	4691	4666
45°	3913	3466	3381
50°	2956	2440	1382
55°	2223	1951	872
60°	2066	1797	839
65°	1923	1793	841
70°	1758	1758	828
75°	1667	1712	799
80°	1541	1620	821
85°	1343	1413	896

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 4005 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.3	5.7
10°-20°	543.6	15.7
20°-30°	770.8	22.2
30°-40°	794.1	22.9
40°-50°	554.6	16.0
50°-60°	266.1	7.7
60°-70°	186.7	5.4
70°-80°	116.7	3.4
80°-90°	36.1	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°	1511.6	43.6
0°-40°	2305.7	66.5
0°-60°	3126.5	90.2
0°-90°	3466.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3466.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2136	2136	2136	2136	2136	
5°	2070	2067	2061	2115	2125	196
15°	1863	1877	1920	1975	2044	525
25°	1584	1600	1652	1764	1841	724
35°	1193	1225	1295	1322	1378	752
45°	780	798	691	656	674	601
55°	359	342	315	202	141	337
65°	229	214	214	162	100	227
75°	122	120	125	108	58	128
85°	33	33	35	34	22	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2135.6	2135.6	2135.6	2135.6	2135.6
2.5°	2127.3	2120.7	2104.8	2134.0	2131.7
5°	2070.1	2067.4	2060.7	2114.7	2125.1
7.5°	2037.6	2032.1	2024.4	2083.9	2113.0
10°	2003.0	2009.6	1994.1	2048.6	2096.0
12.5°	1931.4	1949.0	1969.9	2012.3	2075.1
15°	1863.1	1876.9	1920.4	1975.4	2044.2
17.5°	1799.3	1815.3	1852.7	1935.3	2008.5
20°	1726.6	1748.7	1785.0	1890.7	1958.4
22.5°	1651.8	1672.2	1717.8	1831.2	1906.6
25°	1584.1	1600.1	1651.8	1763.5	1840.6
27.5°	1494.4	1524.1	1573.1	1681.0	1761.9
30°	1406.3	1431.6	1490.0	1580.8	1660.6
32.5°	1300.1	1337.0	1401.4	1470.7	1537.3
35°	1192.7	1225.2	1295.1	1322.1	1377.7
37.5°	1114.6	1123.4	1163.0	1159.7	1191.1
40°	1010.6	1028.2	1012.8	971.5	1007.3
42.5°	898.3	919.2	857.0	809.1	821.8
45°	779.9	798.1	690.8	655.5	673.7
47.5°	677.6	675.9	557.0	533.4	508.0
50°	535.6	553.2	442.0	397.9	250.4
52.5°	418.3	424.9	364.4	254.3	164.6
55°	359.4	341.8	315.4	202.0	140.9
57.5°	319.2	297.2	279.6	187.7	128.8
60°	291.2	266.4	253.2	178.3	118.3
62.5°	259.2	240.0	235.0	170.1	109.0
65°	229.0	214.1	213.6	162.4	100.2
67.5°	198.7	190.4	192.6	153.0	90.3
70°	169.5	167.9	169.5	140.9	79.8
72.5°	144.8	143.1	147.5	125.5	68.3
75°	121.6	120.0	124.9	107.9	58.3
77.5°	96.9	98.0	101.3	89.7	49.0
80°	75.4	75.4	79.3	70.5	40.2
82.5°	53.9	54.5	56.7	51.7	31.4
85°	33.0	33.0	34.7	34.1	22.0
87.5°	11.0	12.7	14.9	16.0	11.0
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	12.68	14.04	13.05	14.35	14.66	9.02	10.37	9.38	10.68	11.00
	3H	14.42	15.63	14.80	15.96	16.32	10.99	12.20	11.37	12.53	12.89
	4H	15.09	16.22	15.49	16.57	16.95	11.70	12.82	12.10	13.17	13.56
	6H	15.60	16.64	16.01	17.01	17.40	12.22	13.26	12.63	13.63	14.02
	8H	15.77	16.76	16.20	17.15	17.55	12.40	13.39	12.83	13.78	14.18
	12H	15.88	16.82	16.31	17.21	17.64	12.54	13.49	12.98	13.87	14.30
4H	2H	13.21	14.34	13.62	14.69	15.07	10.64	11.77	11.04	12.12	12.50
	3H	15.19	16.12	15.60	16.52	16.93	12.82	13.75	13.23	14.15	14.55
	4H	15.99	16.83	16.43	17.25	17.69	13.70	14.53	14.13	14.95	15.39
	6H	16.64	17.36	17.10	17.81	18.27	14.34	15.06	14.80	15.51	15.97
	8H	16.86	17.53	17.32	17.98	18.45	14.55	15.22	15.02	15.67	16.14
	12H	17.01	17.61	17.49	18.09	18.56	14.71	15.31	15.19	15.79	16.26
8H	4H	16.28	16.95	16.74	17.40	17.87	14.34	15.02	14.81	15.47	15.94
	6H	17.06	17.62	17.56	18.11	18.59	15.21	15.76	15.71	16.26	16.74
	8H	17.36	17.86	17.88	18.37	18.87	15.53	16.03	16.05	16.55	17.04
	12H	17.60	18.04	18.11	18.53	19.10	15.80	16.24	16.31	16.73	17.30
12H	4H	16.29	16.89	16.78	17.38	17.85	14.42	15.02	14.90	15.50	15.97
	6H	17.11	17.61	17.63	18.13	18.62	15.34	15.84	15.86	16.36	16.85
	8H	17.48	17.92	17.99	18.41	18.98	15.76	16.20	16.27	16.69	17.26