

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: P895012

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

Issue Date: 11/11/2024

**Test Information**

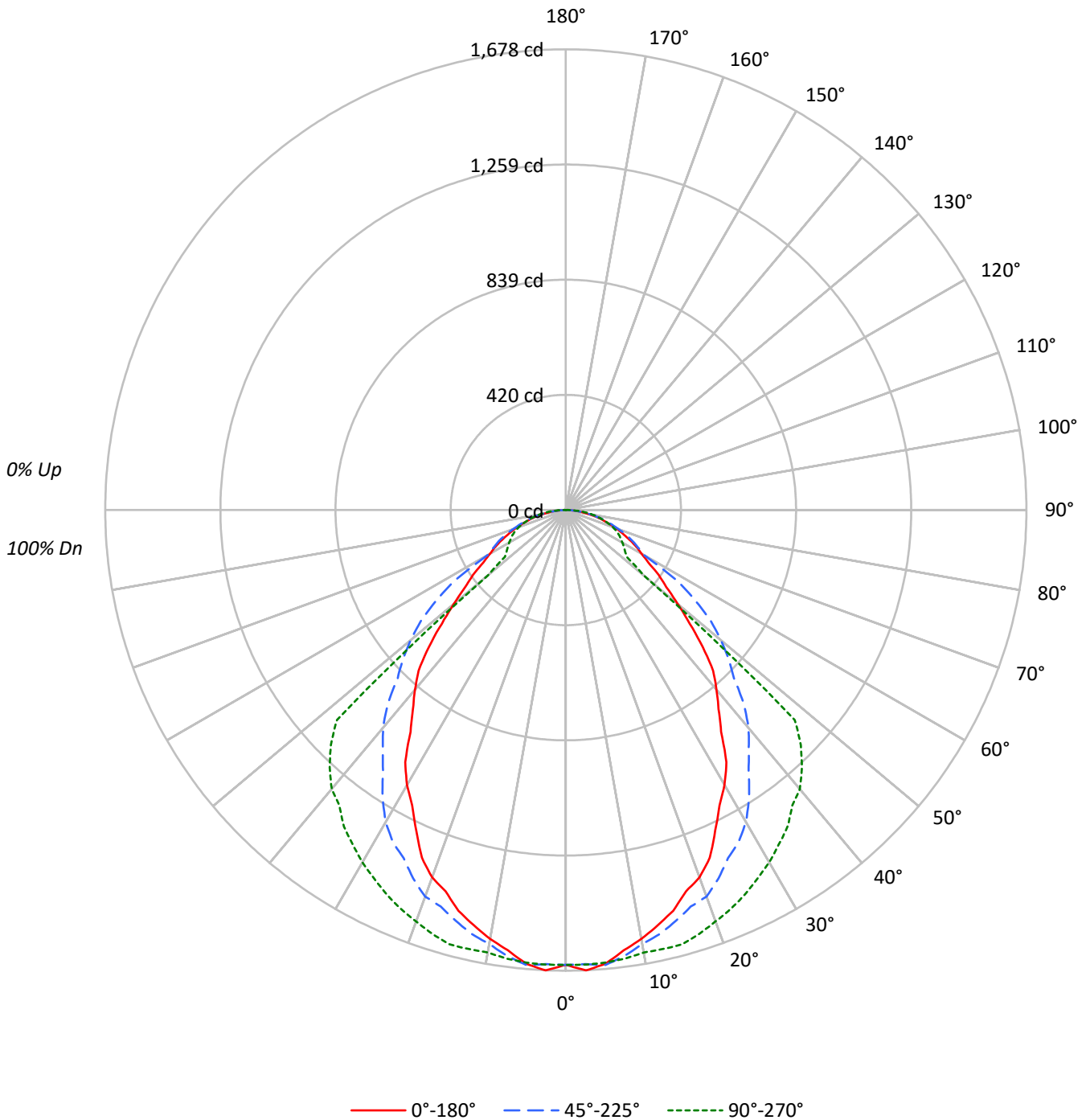
Test Method: LM-79-2019  
Report Number: P895012  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-4SL-LVR-UNV-L950  
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 5000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3535.0 lumens  
Efficiency: N/A  
Efficacy: 128.1 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27  
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	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	71	80	74	69	77	72	68	75	71	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	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	57	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	43	39	49	43	38	48	42	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	30

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

	0°	45°	90°
0°	5877	5877	5877
5°	5909	5924	5894
10°	5715	5782	5895
15°	5550	5690	6016
20°	5376	5657	6021
25°	5044	5475	6048
30°	4738	5376	6073
35°	4273	5028	6101
40°	3958	4796	6144
45°	3541	4347	6075
50°	2937	4072	2041
55°	2559	3574	1633
60°	2263	2330	1693
65°	2152	2266	1797
70°	2019	2141	1895
75°	1879	2018	1948
80°	1712	1902	2039
85°	1514	1620	2202

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6075 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.1	4.4
10°-20°	442.0	12.5
20°-30°	650.2	18.4
30°-40°	743.6	21.0
40°-50°	704.1	19.9
50°-60°	387.9	11.0
60°-70°	249.1	7.0
70°-80°	153.7	4.3
80°-90°	47.3	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°	1249.3	35.3
0°-40°	1992.9	56.4
0°-60°	3084.9	87.3
0°-90°	3535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3535.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1656	1656	1656	1656	1656	
5°	1659	1673	1663	1663	1655	156
15°	1511	1530	1549	1630	1638	424
25°	1288	1346	1398	1490	1545	593
35°	986	1071	1161	1329	1409	624
45°	706	772	866	1112	1211	540
55°	414	434	578	298	264	370
65°	256	265	270	240	214	254
75°	137	140	147	155	142	146
85°	37	37	40	46	54	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1656.5	1656.5	1656.5	1656.5	1656.5
2.5°	1678.5	1682.7	1655.7	1654.8	1657.4
5°	1659.0	1672.6	1663.3	1663.3	1654.8
7.5°	1617.6	1640.4	1637.9	1657.4	1648.0
10°	1586.3	1604.9	1604.9	1655.7	1636.2
12.5°	1549.1	1570.2	1582.1	1635.4	1637.9
15°	1511.0	1529.6	1549.1	1630.3	1637.9
17.5°	1456.0	1489.8	1514.4	1593.9	1618.4
20°	1423.9	1444.2	1498.3	1562.6	1594.7
22.5°	1370.6	1400.2	1452.6	1524.5	1571.9
25°	1288.5	1346.0	1398.5	1489.8	1544.8
27.5°	1212.3	1255.5	1363.8	1460.2	1512.7
30°	1156.5	1190.3	1312.2	1417.1	1482.2
32.5°	1088.8	1143.8	1242.8	1374.8	1444.2
35°	986.5	1071.1	1160.7	1329.1	1408.6
37.5°	914.5	972.9	1094.7	1281.7	1355.3
40°	854.5	907.8	1035.5	1222.5	1326.6
42.5°	794.4	837.6	961.1	1178.5	1273.3
45°	705.6	772.4	866.3	1111.7	1210.7
47.5°	612.5	683.6	804.6	1055.0	1131.1
50°	532.1	588.8	737.7	942.5	369.7
52.5°	461.9	514.4	666.7	340.9	279.2
55°	413.7	434.0	577.8	297.8	264.0
57.5°	356.2	389.2	484.8	283.4	250.4
60°	318.9	333.3	328.3	269.0	238.6
62.5°	289.3	299.5	297.8	254.7	225.0
65°	256.3	264.8	269.9	240.3	214.0
67.5°	223.3	231.0	238.6	222.5	198.8
70°	194.6	199.7	206.4	201.4	182.7
72.5°	165.0	170.9	175.1	179.4	161.6
75°	137.1	139.6	147.2	154.8	142.1
77.5°	111.7	114.2	119.3	127.7	121.0
80°	83.8	86.3	93.1	99.8	99.8
82.5°	59.2	60.9	65.1	74.4	78.7
85°	37.2	37.2	39.8	45.7	54.1
87.5°	14.4	14.4	16.9	20.3	27.1
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	14.10	15.59	14.47	15.90	16.21	11.91	13.39	12.27	13.70	14.02
	3H	15.63	16.96	16.01	17.28	17.65	14.24	15.56	14.61	15.89	16.25
	4H	16.22	17.47	16.62	17.81	18.19	15.19	16.43	15.59	16.78	17.16
	6H	16.68	17.83	17.09	18.19	18.59	15.97	17.12	16.38	17.48	17.88
	8H	16.82	17.92	17.25	18.31	18.71	16.28	17.37	16.71	17.76	18.17
	12H	16.92	17.97	17.35	18.35	18.78	16.53	17.58	16.96	17.96	18.39
4H	2H	14.65	15.90	15.06	16.25	16.63	13.01	14.25	13.41	14.60	14.98
	3H	16.43	17.46	16.84	17.86	18.26	15.46	16.48	15.87	16.89	17.29
	4H	17.15	18.07	17.58	18.49	18.93	16.52	17.45	16.95	17.86	18.30
	6H	17.73	18.54	18.19	18.98	19.44	17.41	18.21	17.87	18.66	19.12
	8H	17.92	18.67	18.39	19.12	19.59	17.76	18.51	18.22	18.96	19.43
	12H	18.06	18.73	18.54	19.21	19.68	18.05	18.72	18.53	19.20	19.67
8H	4H	17.45	18.21	17.92	18.65	19.12	16.91	17.66	17.37	18.11	18.57
	6H	18.17	18.79	18.66	19.28	19.76	17.94	18.57	18.44	19.06	19.54
	8H	18.43	18.99	18.94	19.50	19.99	18.39	18.95	18.90	19.46	19.95
	12H	18.64	19.13	19.15	19.63	20.19	18.77	19.27	19.28	19.76	20.33
12H	4H	17.49	18.16	17.97	18.64	19.11	16.94	17.62	17.43	18.10	18.57
	6H	18.23	18.79	18.74	19.30	19.79	18.01	18.57	18.52	19.08	19.57
	8H	18.55	19.05	19.06	19.54	20.11	18.52	19.01	19.03	19.51	20.07