

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: P895026

Luminaire Tested: 8TMB-4SL-LVRF-UNV-L935

Issue Date: 11/11/2024

**Test Information**

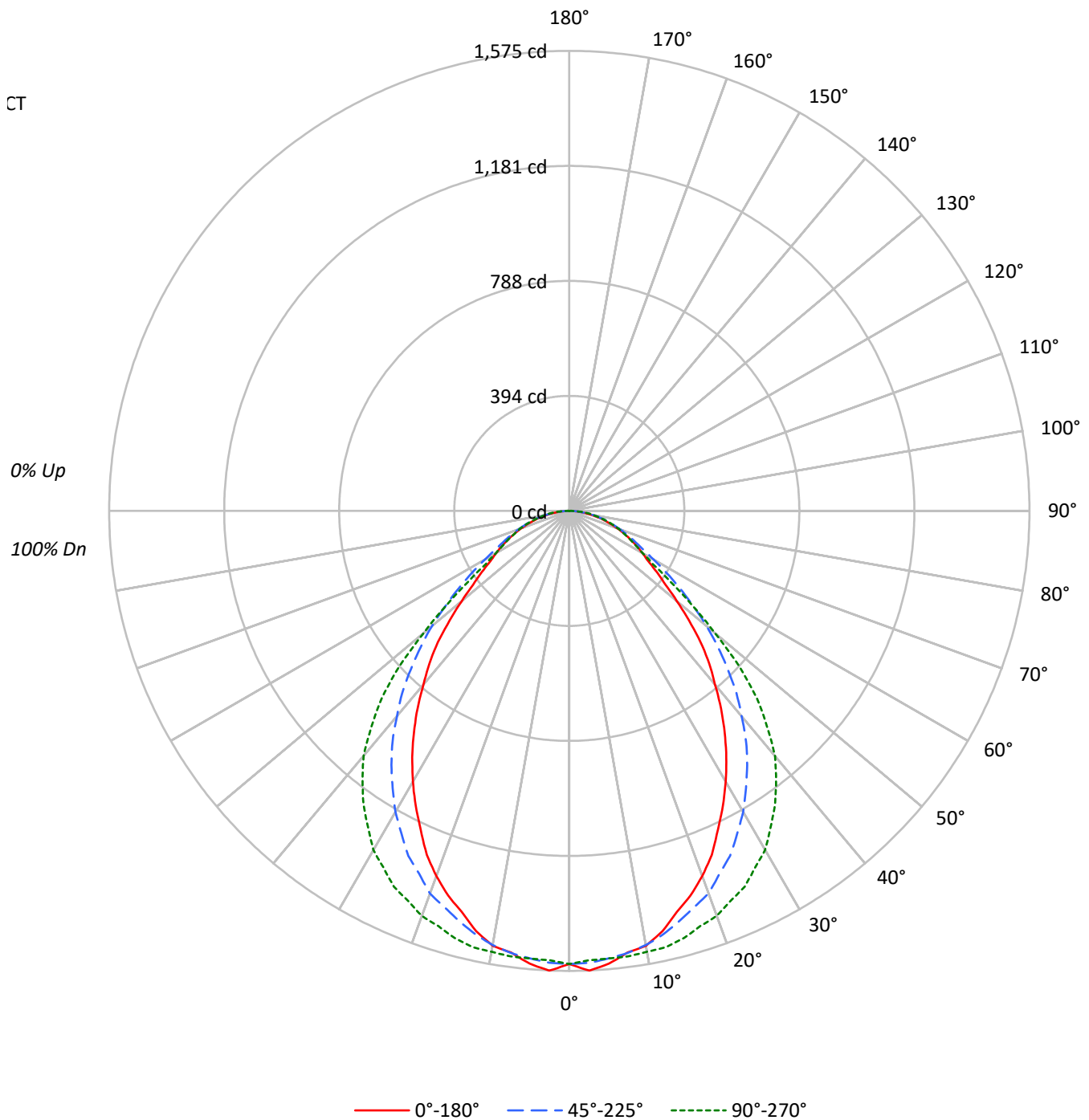
Test Method: LM-79-2019  
Report Number: P895026  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-4SL-LVRF-UNV-L935  
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 3500K C  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3224.0 lumens  
Efficiency: N/A  
Efficacy: 116.8 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): 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	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°	5504	5504	5504
5°	5542	5479	5479
10°	5446	5438	5522
15°	5221	5342	5562
20°	5023	5263	5571
25°	4712	5100	5558
30°	4386	4875	5493
35°	4015	4598	5318
40°	3594	4252	5074
45°	3190	3850	4562
50°	2654	3389	3598
55°	2260	2854	2615
60°	2049	2359	2066
65°	1930	2065	1923
70°	1815	1916	1875
75°	1692	1825	1792
80°	1549	1682	1731
85°	1348	1478	1938

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4562 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.9	4.6
10°-20°	413.3	12.8
20°-30°	600.2	18.6
30°-40°	668.3	20.7
40°-50°	590.4	18.3
50°-60°	387.4	12.0
60°-70°	237.2	7.4
70°-80°	138.0	4.3
80°-90°	42.3	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°	1160.3	36.0
0°-40°	1828.6	56.7
0°-60°	2806.4	87.0
0°-90°	3224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3224.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1551	1551	1551	1551	1551	
5°	1556	1557	1538	1554	1538	147
15°	1421	1438	1454	1512	1514	401
25°	1204	1233	1303	1386	1420	554
35°	927	977	1062	1174	1228	578
45°	636	674	767	870	909	486
55°	365	391	461	457	423	331
65°	230	234	246	239	229	229
75°	123	125	133	136	131	131
85°	33	35	36	41	48	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1551.2	1551.2	1551.2	1551.2	1551.2
2.5°	1575.4	1556.1	1548.8	1556.1	1539.9
5°	1556.1	1556.9	1538.3	1553.7	1538.3
7.5°	1525.4	1535.9	1527.0	1550.4	1538.3
10°	1511.7	1512.5	1509.3	1533.5	1532.7
12.5°	1473.8	1476.2	1485.1	1521.4	1529.5
15°	1421.4	1437.5	1454.4	1511.7	1514.1
17.5°	1380.2	1399.6	1422.2	1483.5	1490.7
20°	1330.2	1338.3	1393.9	1448.0	1475.4
22.5°	1274.6	1289.9	1343.9	1416.5	1444.0
25°	1203.6	1232.6	1302.8	1385.9	1419.8
27.5°	1138.2	1172.1	1244.7	1337.5	1377.0
30°	1070.5	1109.2	1189.8	1281.0	1340.7
32.5°	1000.3	1048.7	1125.3	1230.2	1282.6
35°	926.9	976.9	1061.6	1173.7	1227.8
37.5°	853.5	901.9	993.8	1114.0	1162.4
40°	776.0	823.6	918.0	1039.8	1095.5
42.5°	709.1	750.2	847.0	951.1	1002.7
45°	635.7	674.4	767.2	870.4	909.1
47.5°	555.0	600.2	690.5	775.2	790.5
50°	480.8	527.6	613.9	663.1	651.8
52.5°	415.4	455.0	534.0	555.0	528.4
55°	365.4	391.2	461.4	457.4	422.7
57.5°	319.4	335.6	395.3	372.7	339.6
60°	288.8	296.1	332.4	311.4	291.2
62.5°	259.8	263.0	282.3	271.0	255.7
65°	229.9	233.9	246.0	238.8	229.1
67.5°	202.5	204.1	215.4	213.8	201.7
70°	175.0	177.5	184.7	188.0	180.7
72.5°	148.4	150.8	158.1	161.3	154.9
75°	123.4	125.0	133.1	135.5	130.7
77.5°	99.2	102.4	107.3	111.3	105.7
80°	75.8	77.4	82.3	87.1	84.7
82.5°	53.2	55.7	58.9	65.3	67.0
85°	33.1	34.7	36.3	41.1	47.6
87.5°	12.9	13.7	16.1	17.7	23.4
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	13.46	14.94	13.82	15.25	15.56	14.11	15.59	14.47	15.90	16.22
	3H	15.06	16.38	15.43	16.71	17.07	15.54	16.87	15.92	17.20	17.56
	4H	15.67	16.91	16.07	17.26	17.64	16.15	17.39	16.55	17.74	18.12
	6H	16.14	17.29	16.56	17.66	18.05	16.63	17.78	17.05	18.15	18.54
	8H	16.30	17.39	16.72	17.78	18.18	16.83	17.92	17.26	18.31	18.72
	12H	16.40	17.44	16.83	17.82	18.25	17.00	18.04	17.43	18.43	18.86
4H	2H	14.08	15.32	14.48	15.67	16.05	14.60	15.84	15.00	16.19	16.57
	3H	15.90	16.93	16.31	17.33	17.73	16.30	17.33	16.71	17.73	18.13
	4H	16.64	17.56	17.07	17.98	18.42	17.05	17.98	17.48	18.39	18.83
	6H	17.23	18.04	17.69	18.48	18.94	17.69	18.49	18.15	18.93	19.40
	8H	17.43	18.18	17.89	18.63	19.09	17.94	18.69	18.41	19.14	19.61
	12H	17.57	18.24	18.05	18.72	19.19	18.17	18.84	18.65	19.32	19.79
8H	4H	16.95	17.71	17.42	18.15	18.62	17.32	18.07	17.79	18.52	18.99
	6H	17.68	18.30	18.18	18.79	19.27	18.10	18.72	18.59	19.21	19.69
	8H	17.95	18.51	18.47	19.02	19.51	18.44	19.00	18.96	19.51	20.00
	12H	18.17	18.67	18.68	19.16	19.72	18.76	19.26	19.27	19.75	20.31
12H	4H	16.99	17.66	17.47	18.14	18.61	17.34	18.01	17.82	18.49	18.96
	6H	17.74	18.30	18.26	18.81	19.30	18.14	18.70	18.66	19.21	19.70
	8H	18.08	18.57	18.59	19.06	19.63	18.55	19.04	19.06	19.54	20.10