

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: P895009

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

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P895009  
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-L930  
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3000K CCT  
Light Source: -  
Ballast/Driver: -

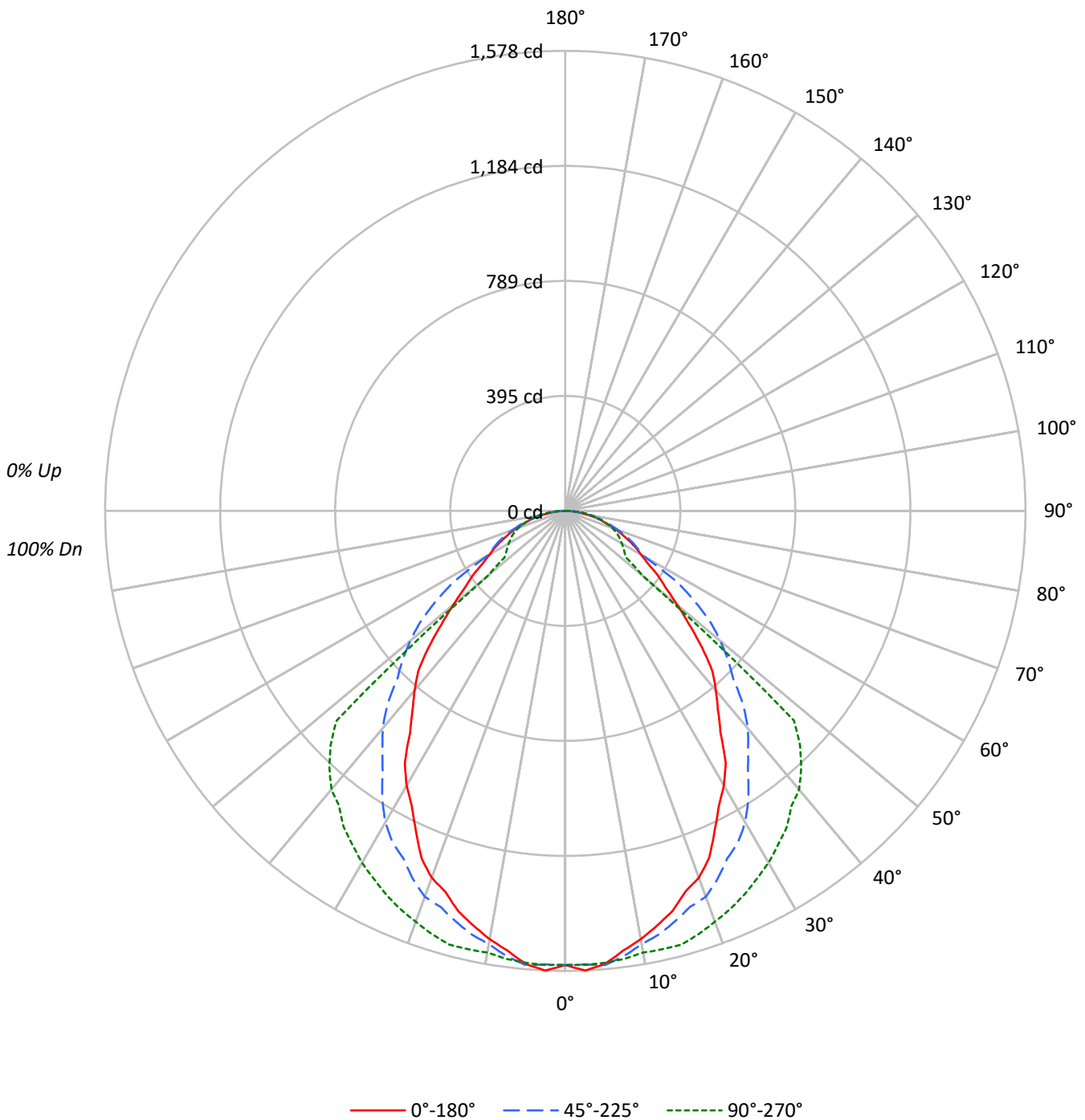
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3324.0 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.33 / 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	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	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	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	57	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	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

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

	0°	45°	90°
0°	5527	5527	5527
5°	5556	5570	5542
10°	5374	5437	5543
15°	5219	5351	5657
20°	5055	5320	5662
25°	4743	5148	5687
30°	4456	5055	5710
35°	4018	4728	5737
40°	3722	4510	5778
45°	3329	4088	5712
50°	2762	3829	1919
55°	2406	3361	1535
60°	2128	2191	1592
65°	2023	2131	1690
70°	1898	2014	1782
75°	1767	1897	1832
80°	1610	1788	1919
85°	1425	1523	2072

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5712 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.7	4.4
10°-20°	415.6	12.5
20°-30°	611.4	18.4
30°-40°	699.2	21.0
40°-50°	662.1	19.9
50°-60°	364.8	11.0
60°-70°	234.2	7.0
70°-80°	144.5	4.3
80°-90°	44.5	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°	1174.8	35.3
0°-40°	1873.9	56.4
0°-60°	2900.8	87.3
0°-90°	3324.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3324.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1558	1558	1558	1558	1558	
5°	1560	1573	1564	1564	1556	146
15°	1421	1438	1457	1533	1540	399
25°	1212	1266	1315	1401	1453	558
35°	928	1007	1092	1250	1324	586
45°	664	726	815	1045	1138	507
55°	389	408	543	280	248	348
65°	241	249	254	226	201	239
75°	129	131	138	146	134	137
85°	35	35	37	43	51	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1557.6	1557.6	1557.6	1557.6	1557.6
2.5°	1578.3	1582.3	1556.8	1556.0	1558.4
5°	1560.0	1572.7	1564.0	1564.0	1556.0
7.5°	1521.0	1542.5	1540.1	1558.4	1549.7
10°	1491.6	1509.1	1509.1	1556.8	1538.5
12.5°	1456.6	1476.5	1487.6	1537.7	1540.1
15°	1420.8	1438.3	1456.6	1533.0	1540.1
17.5°	1369.1	1400.9	1424.0	1498.8	1521.8
20°	1338.9	1358.0	1408.9	1469.3	1499.6
22.5°	1288.7	1316.6	1365.9	1433.5	1478.1
25°	1211.6	1265.7	1315.0	1400.9	1452.6
27.5°	1140.0	1180.6	1282.4	1373.1	1422.4
30°	1087.5	1119.3	1233.9	1332.5	1393.8
32.5°	1023.8	1075.5	1168.6	1292.7	1358.0
35°	927.6	1007.1	1091.5	1249.8	1324.5
37.5°	860.0	914.9	1029.4	1205.2	1274.4
40°	803.5	853.6	973.7	1149.5	1247.4
42.5°	747.0	787.6	903.7	1108.2	1197.3
45°	663.5	726.3	814.6	1045.3	1138.4
47.5°	576.0	642.8	756.5	992.0	1063.6
50°	500.4	553.7	693.7	886.2	347.6
52.5°	434.4	483.7	626.9	320.6	262.5
55°	389.0	408.1	543.3	280.0	248.2
57.5°	334.9	365.9	455.8	266.5	235.5
60°	299.9	313.4	308.7	253.0	224.3
62.5°	272.1	281.6	280.0	239.5	211.6
65°	241.0	249.0	253.8	225.9	201.3
67.5°	210.0	217.2	224.3	209.2	186.9
70°	183.0	187.7	194.1	189.3	171.8
72.5°	155.1	160.7	164.7	168.7	151.9
75°	128.9	131.3	138.4	145.6	133.6
77.5°	105.0	107.4	112.2	120.1	113.8
80°	78.8	81.1	87.5	93.9	93.9
82.5°	55.7	57.3	61.3	70.0	74.0
85°	35.0	35.0	37.4	43.0	50.9
87.5°	13.5	13.5	15.9	19.1	25.5
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	13.89	15.37	14.25	15.69	16.00	11.69	13.17	12.06	13.49	13.80
	3H	15.42	16.74	15.79	17.07	17.43	14.02	15.35	14.40	15.68	16.04
	4H	16.01	17.25	16.41	17.60	17.98	14.97	16.21	15.37	16.56	16.94
	6H	16.47	17.61	16.88	17.98	18.37	15.76	16.90	16.17	17.27	17.66
	8H	16.61	17.70	17.04	18.09	18.49	16.07	17.16	16.50	17.55	17.95
	12H	16.71	17.75	17.14	18.13	18.56	16.32	17.36	16.75	17.74	18.17
4H	2H	14.44	15.68	14.84	16.03	16.41	12.80	14.04	13.20	14.39	14.77
	3H	16.21	17.24	16.62	17.64	18.04	15.24	16.27	15.65	16.67	17.07
	4H	16.93	17.86	17.37	18.27	18.71	16.31	17.23	16.74	17.65	18.09
	6H	17.52	18.32	17.98	18.77	19.23	17.20	18.00	17.65	18.44	18.91
	8H	17.71	18.46	18.17	18.90	19.37	17.55	18.30	18.01	18.75	19.21
	12H	17.84	18.52	18.33	19.00	19.47	17.84	18.51	18.32	18.99	19.46
8H	4H	17.24	17.99	17.70	18.44	18.91	16.69	17.45	17.16	17.89	18.36
	6H	17.95	18.57	18.45	19.07	19.54	17.73	18.35	18.23	18.85	19.32
	8H	18.21	18.77	18.73	19.28	19.77	18.18	18.74	18.69	19.25	19.74
	12H	18.42	18.92	18.93	19.41	19.98	18.56	19.06	19.07	19.55	20.12
12H	4H	17.28	17.95	17.76	18.43	18.90	16.73	17.40	17.21	17.88	18.35
	6H	18.02	18.58	18.53	19.09	19.58	17.79	18.36	18.31	18.87	19.36
	8H	18.34	18.83	18.85	19.33	19.89	18.30	18.80	18.81	19.29	19.86