

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: P895018

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

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P895018  
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-L935  
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 3500K CCT  
Light Source: -  
Ballast/Driver: -

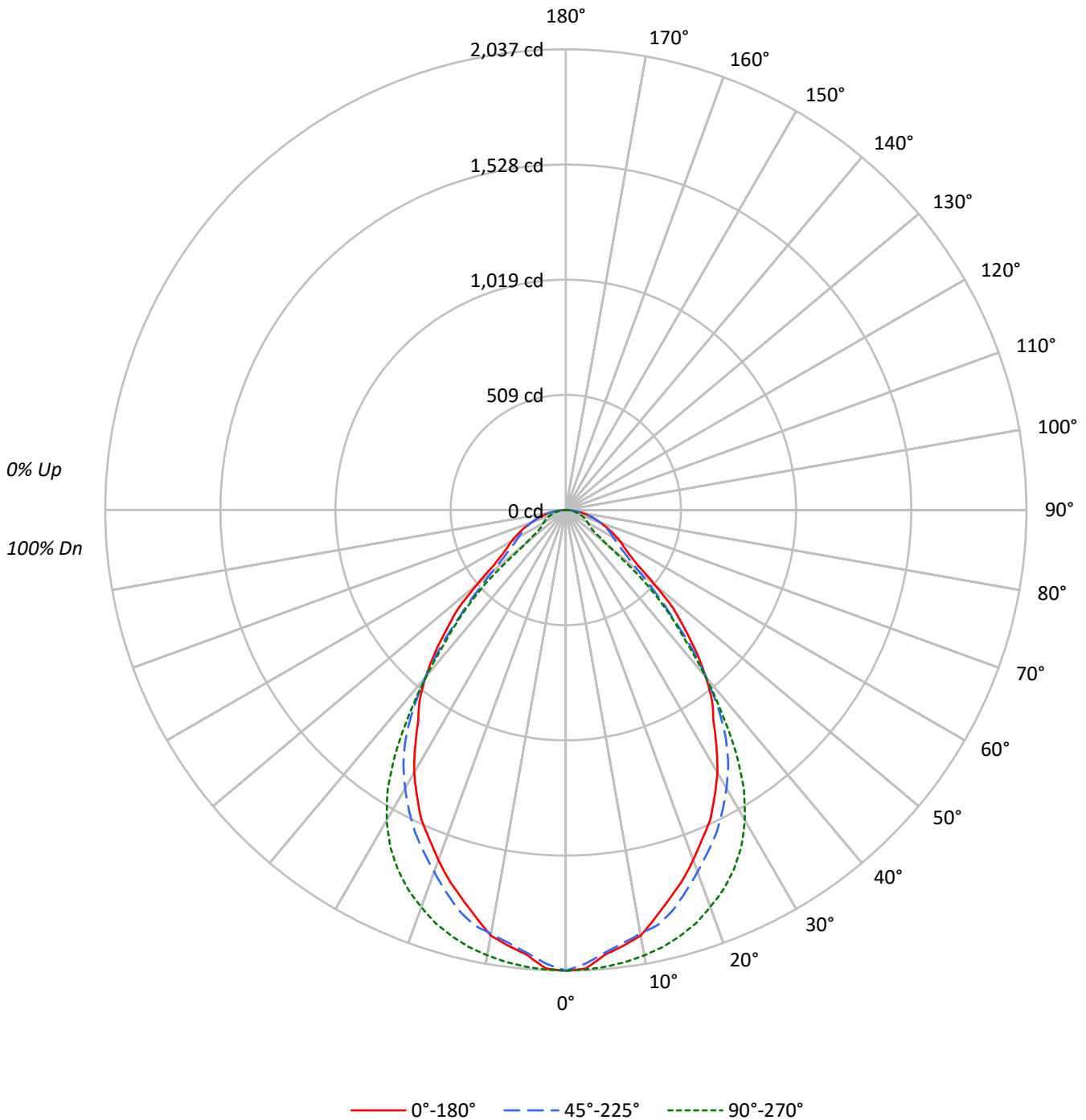
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3306.0 lumens  
Efficiency: N/A  
Efficacy: 119.8 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35

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

	0°	45°	90°
0°	7228	7228	7228
5°	7033	7001	7220
10°	6883	6853	7203
15°	6528	6728	7163
20°	6218	6429	7053
25°	5915	6168	6873
30°	5496	5823	6489
35°	4928	5351	5692
40°	4465	4474	4450
45°	3733	3306	3224
50°	2820	2327	1319
55°	2121	1861	831
60°	1971	1714	801
65°	1834	1710	803
70°	1677	1677	789
75°	1590	1634	764
80°	1469	1545	783
85°	1282	1348	855

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 3820 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.2	5.7
10°-20°	518.5	15.7
20°-30°	735.2	22.2
30°-40°	757.4	22.9
40°-50°	529.0	16.0
50°-60°	253.9	7.7
60°-70°	178.1	5.4
70°-80°	111.4	3.4
80°-90°	34.5	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°	1441.8	43.6
0°-40°	2199.2	66.5
0°-60°	2982.1	90.2
0°-90°	3306.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3306.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2037	2037	2037	2037	2037	
5°	1974	1972	1966	2017	2027	187
15°	1777	1790	1832	1884	1950	500
25°	1511	1526	1576	1682	1756	691
35°	1138	1169	1235	1261	1314	717
45°	744	761	659	625	643	573
55°	343	326	301	193	134	321
65°	218	204	204	155	96	216
75°	116	114	119	103	56	122
85°	32	32	33	33	21	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2037.0	2037.0	2037.0	2037.0	2037.0
2.5°	2029.1	2022.8	2007.6	2035.4	2033.3
5°	1974.5	1971.9	1965.6	2017.1	2027.0
7.5°	1943.6	1938.3	1931.0	1987.7	2015.5
10°	1910.5	1916.8	1902.1	1954.1	1999.2
12.5°	1842.2	1859.0	1879.0	1919.4	1979.3
15°	1777.1	1790.3	1831.7	1884.2	1949.9
17.5°	1716.2	1731.5	1767.2	1845.9	1915.7
20°	1646.9	1667.9	1702.6	1803.4	1868.0
22.5°	1575.5	1595.0	1638.5	1746.7	1818.6
25°	1511.0	1526.2	1575.5	1682.1	1755.6
27.5°	1425.4	1453.7	1500.5	1603.4	1680.5
30°	1341.4	1365.5	1421.2	1507.8	1583.9
32.5°	1240.1	1275.2	1336.7	1402.8	1466.3
35°	1137.7	1168.7	1235.3	1261.1	1314.1
37.5°	1063.1	1071.5	1109.3	1106.2	1136.1
40°	963.9	980.7	966.0	926.6	960.8
42.5°	856.8	876.8	817.4	771.8	783.8
45°	743.9	761.3	658.9	625.3	642.6
47.5°	646.3	644.7	531.3	508.7	484.6
50°	510.8	527.6	421.6	379.6	238.9
52.5°	399.0	405.3	347.6	242.6	157.0
55°	342.8	326.0	300.8	192.7	134.4
57.5°	304.5	283.5	266.7	179.0	122.9
60°	277.7	254.1	241.5	170.1	112.9
62.5°	247.3	228.9	224.2	162.2	104.0
65°	218.4	204.2	203.7	154.9	95.6
67.5°	189.5	181.7	183.8	146.0	86.1
70°	161.7	160.1	161.7	134.4	76.1
72.5°	138.1	136.5	140.7	119.7	65.1
75°	116.0	114.5	119.2	102.9	55.7
77.5°	92.4	93.5	96.6	85.6	46.7
80°	71.9	71.9	75.6	67.2	38.3
82.5°	51.5	52.0	54.1	49.4	29.9
85°	31.5	31.5	33.1	32.6	21.0
87.5°	10.5	12.1	14.2	15.2	10.5
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	12.52	13.87	12.88	14.18	14.50	8.85	10.20	9.22	10.52	10.83
	3H	14.26	15.46	14.64	15.79	16.16	10.83	12.03	11.21	12.36	12.73
	4H	14.93	16.06	15.33	16.41	16.79	11.53	12.66	11.93	13.01	13.39
	6H	15.44	16.47	15.85	16.84	17.24	12.05	13.09	12.47	13.46	13.86
	8H	15.61	16.59	16.04	16.98	17.39	12.24	13.22	12.67	13.62	14.02
	12H	15.72	16.66	16.15	17.04	17.47	12.38	13.32	12.81	13.70	14.13
4H	2H	13.05	14.18	13.45	14.53	14.91	10.47	11.60	10.87	11.95	12.33
	3H	15.03	15.96	15.44	16.36	16.76	12.65	13.58	13.06	13.98	14.39
	4H	15.83	16.66	16.26	17.08	17.52	13.53	14.37	13.97	14.79	15.23
	6H	16.47	17.20	16.93	17.64	18.11	14.17	14.90	14.64	15.34	15.81
	8H	16.69	17.37	17.16	17.81	18.28	14.38	15.06	14.85	15.51	15.98
	12H	16.85	17.45	17.33	17.93	18.40	14.54	15.14	15.03	15.62	16.10
8H	4H	16.11	16.79	16.58	17.24	17.71	14.18	14.86	14.65	15.30	15.77
	6H	16.90	17.45	17.40	17.95	18.43	15.04	15.60	15.54	16.09	16.57
	8H	17.20	17.70	17.72	18.21	18.70	15.37	15.87	15.89	16.38	16.87
	12H	17.43	17.87	17.95	18.37	18.94	15.63	16.07	16.15	16.57	17.14
12H	4H	16.13	16.73	16.61	17.21	17.69	14.25	14.85	14.74	15.33	15.81
	6H	16.95	17.45	17.47	17.96	18.45	15.18	15.68	15.70	16.19	16.68
	8H	17.31	17.75	17.83	18.25	18.82	15.59	16.03	16.11	16.53	17.10