

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: P895034

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

Issue Date: 11/11/2024

**Test Information**

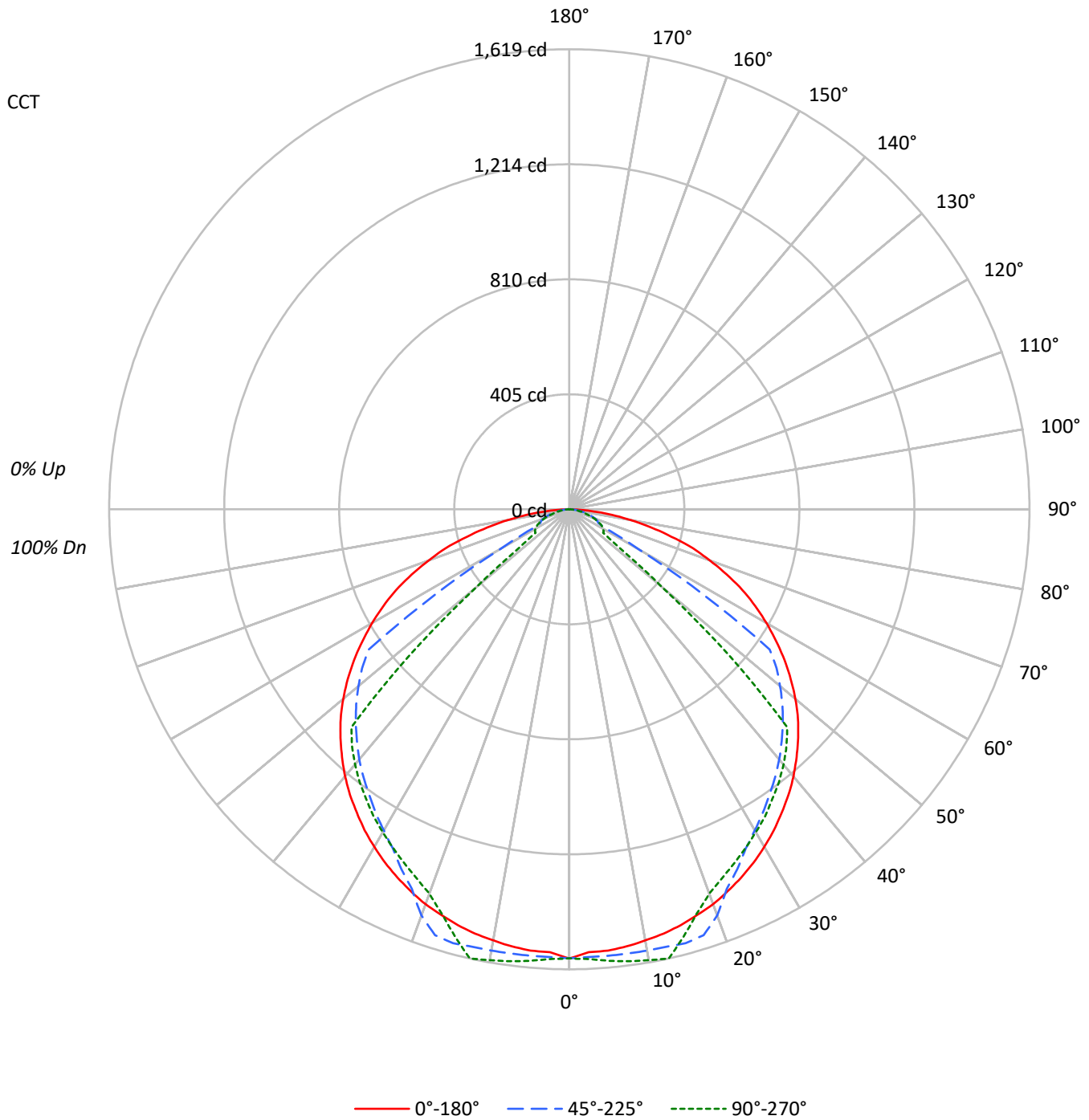
Test Method: LM-79-2019  
Report Number: P895034  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-4SL-RFLW-UNV-L935  
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3500K  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3855.0 lumens  
Efficiency: N/A  
Efficacy: 139.7 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.24 / 1.38  
Luminous Opening: Rectangular (W 0.21' 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

TEST NUMBER: P895034  
CATALOG NUMBER: 8TMB-4SL-RFLW-UNV-L935

### Luminous Intensity Polar Plot





TEST NUMBER: P895034

CATALOG NUMBER: 8TMB-4SL-RFLW-UNV-L935

**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	100	100	100	100
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87	87	87	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75	75	75	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64	64	64	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56	56	56	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49	49	49	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43	43	43	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38	38	38	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35	35	35	35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31	31	31	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28	28	28	28

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

	0°	45°	90°
0°	10235	10235	10235
5°	10132	10251	10368
10°	10131	10369	10596
15°	10158	10596	10426
20°	10193	10480	9918
25°	10218	9985	9816
30°	10259	9759	9812
35°	10303	9700	9844
40°	10373	9714	9913
45°	10424	9727	9926
50°	10463	9751	4292
55°	10436	9720	1637
60°	10376	3709	1785
65°	10304	1722	1833
70°	9953	1854	1715
75°	9297	1769	1496
80°	8178	1555	1283
85°	6464	1345	1077

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 10463 cd/sqm



TEST NUMBER: P895034  
 CATALOG NUMBER: 8TMB-4SL-RFLW-UNV-L935

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.9	3.9
10°-20°	438.3	11.4
20°-30°	654.0	17.0
30°-40°	792.7	20.6
40°-50°	811.7	21.1
50°-60°	539.8	14.0
60°-70°	307.6	8.0
70°-80°	129.2	3.4
80°-90°	30.8	0.8
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°	1243.2	32.2
0°-40°	2035.9	52.8
0°-60°	3387.3	87.9
0°-90°	3855.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3855.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1581	1581	1581	1581	1581	
5°	1559	1590	1577	1581	1595	148
15°	1515	1557	1581	1575	1555	428
25°	1430	1499	1398	1367	1374	660
35°	1303	1327	1227	1233	1245	816
45°	1138	1069	1062	1075	1084	878
55°	924	846	861	188	145	825
65°	672	602	112	120	120	662
75°	372	78	71	62	60	395
85°	87	22	18	14	14	104
90°	0	0	0	0	0	



TEST NUMBER: P895034

CATALOG NUMBER: 8TMB-4SL-RFLW-UNV-L935

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1580.6	1580.6	1580.6	1580.6	1580.6
2.5°	1560.6	1593.3	1577.0	1578.8	1584.2
5°	1558.8	1589.6	1577.0	1580.6	1595.1
7.5°	1551.6	1584.2	1577.0	1587.8	1604.1
10°	1540.7	1578.8	1577.0	1595.1	1611.4
12.5°	1529.8	1567.9	1577.0	1604.1	1618.6
15°	1515.3	1557.0	1580.6	1575.1	1555.2
17.5°	1497.2	1546.1	1571.5	1493.6	1491.8
20°	1479.1	1531.6	1520.8	1446.4	1439.2
22.5°	1455.5	1517.1	1446.4	1395.7	1404.8
25°	1430.1	1499.0	1397.5	1366.7	1373.9
27.5°	1402.9	1480.9	1344.9	1334.1	1343.1
30°	1372.1	1455.5	1305.1	1301.4	1312.3
32.5°	1339.5	1406.6	1267.0	1268.8	1281.5
35°	1303.3	1326.8	1227.1	1232.6	1245.3
37.5°	1267.0	1252.5	1189.1	1198.1	1210.8
40°	1227.1	1194.5	1149.2	1158.2	1172.7
42.5°	1183.6	1132.9	1105.7	1118.4	1131.1
45°	1138.3	1069.4	1062.2	1074.9	1083.9
47.5°	1091.2	1015.1	1016.9	1025.9	768.5
50°	1038.6	960.7	967.9	670.7	426.0
52.5°	982.4	904.5	919.0	373.4	215.7
55°	924.4	846.5	861.0	188.5	145.0
57.5°	862.8	788.5	561.9	135.9	143.2
60°	801.2	726.8	286.4	134.1	137.8
62.5°	737.7	665.2	135.9	128.7	130.5
65°	672.5	601.8	112.4	119.6	119.6
67.5°	600.0	534.7	106.9	106.9	105.1
70°	525.7	444.1	97.9	92.4	90.6
72.5°	456.8	170.4	85.2	76.1	74.3
75°	371.6	77.9	70.7	61.6	59.8
77.5°	295.5	65.3	56.2	48.9	47.1
80°	219.3	50.8	41.7	36.3	34.4
82.5°	152.3	34.4	29.0	23.6	23.6
85°	87.0	21.8	18.1	14.5	14.5
87.5°	34.4	10.9	9.1	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P895034  
 CATALOG NUMBER: 8TMB-4SL-RFLW-UNV-L935

**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	21.01	22.53	21.37	22.84	23.16	8.77	10.29	9.13	10.60	10.92
	3H	23.03	24.39	23.40	24.71	25.08	11.08	12.44	11.46	12.77	13.13
	4H	23.49	24.76	23.89	25.11	25.49	11.80	13.07	12.20	13.42	13.80
	6H	23.90	25.07	24.31	25.44	25.83	12.28	13.45	12.69	13.82	14.21
	8H	24.05	25.16	24.47	25.55	25.95	12.42	13.53	12.85	13.92	14.33
	12H	24.14	25.21	24.57	25.59	26.02	12.51	13.57	12.94	13.96	14.38
4H	2H	20.85	22.12	21.25	22.47	22.85	9.57	10.84	9.97	11.19	11.57
	3H	23.05	24.10	23.46	24.50	24.90	12.08	13.13	12.49	13.53	13.93
	4H	23.50	24.44	23.93	24.85	25.29	12.90	13.84	13.33	14.25	14.69
	6H	23.96	24.78	24.42	25.22	25.68	13.49	14.31	13.95	14.75	15.21
	8H	24.16	24.92	24.62	25.36	25.83	13.66	14.42	14.13	14.87	15.33
	12H	24.31	24.99	24.79	25.47	25.94	13.78	14.46	14.26	14.94	15.41
8H	4H	23.42	24.18	23.88	24.62	25.09	13.74	14.50	14.20	14.94	15.41
	6H	23.88	24.51	24.37	25.00	25.48	14.36	14.99	14.86	15.48	15.96
	8H	24.08	24.64	24.59	25.15	25.64	14.56	15.13	15.08	15.64	16.13
	12H	24.26	24.76	24.77	25.26	25.82	14.72	15.22	15.23	15.71	16.28
12H	4H	23.39	24.07	23.87	24.54	25.02	13.81	14.49	14.29	14.97	15.44
	6H	23.83	24.40	24.35	24.91	25.40	14.45	15.02	14.97	15.53	16.02
	8H	24.05	24.55	24.56	25.05	25.61	14.71	15.21	15.22	15.70	16.27