

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: P895371

Luminaire Tested: 8TMB-SC3-ASYMR-UNV-CC83-LOW-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895371
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2410-248-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-ASYMR-UNV-CC83-LOW-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 80CRI, 4000K CCT, LOW setting
Light Source: -
Ballast/Driver: -

Summary

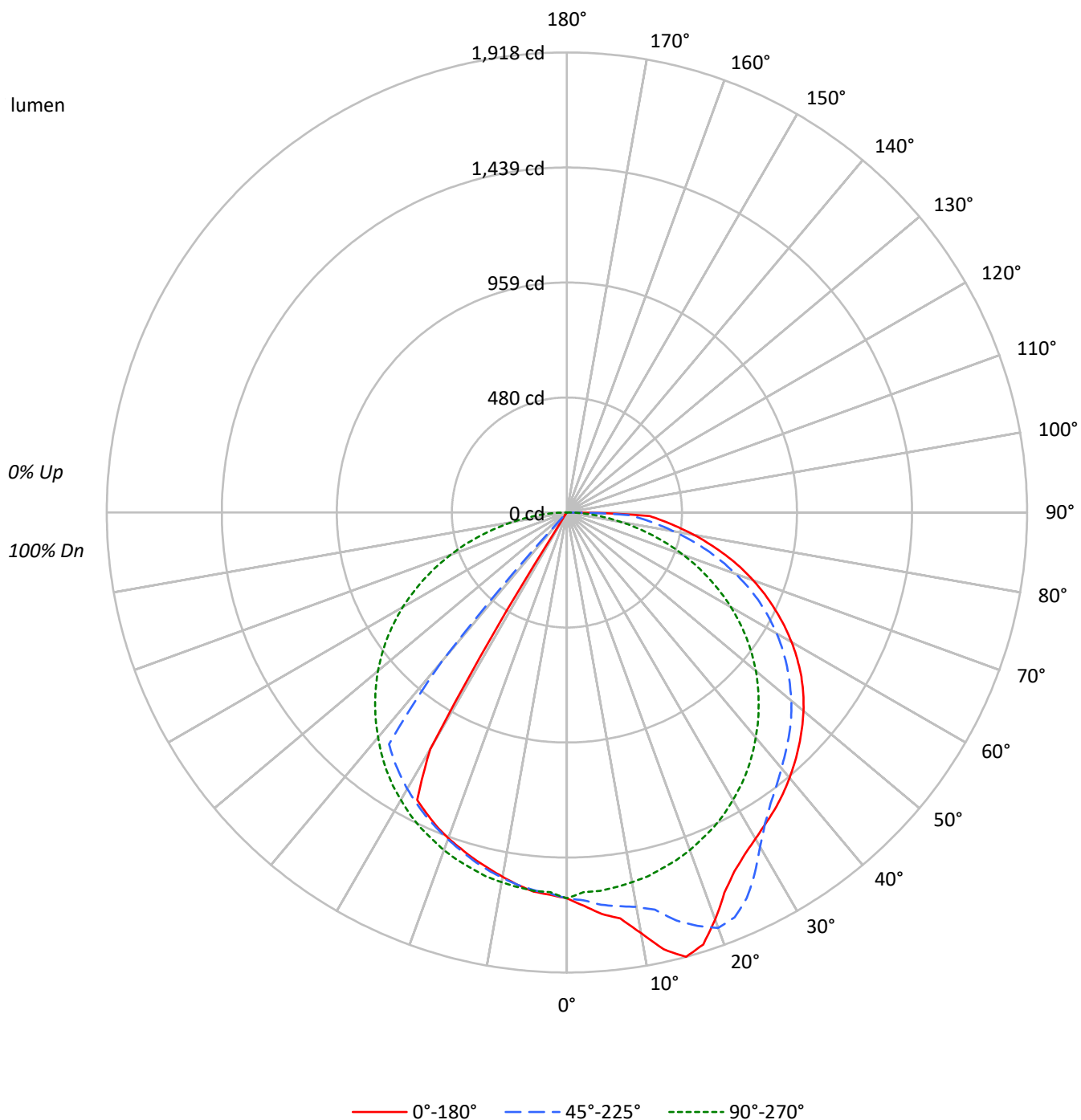
Lumens per Lamp: N/A
Luminaire Lumens: 4352.0 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.25
Luminous Opening: Rectangular (W 0.21' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9915
Total Harmonic Distortion (THDi): 6.67573310469889
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
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	100		
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83		
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69		
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59		
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50		
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39		
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	35		
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10416	10416	10416	10416	10416
5°	10923	10671	10294	10276	10312
10°	11703	10976	10292	10171	10140
15°	12859	11808	10295	10073	10024
20°	12449	12703	10323	9993	9960
25°	11795	12677	10347	9959	9886
30°	11744	12034	10346	9947	8514
35°	11944	11703	10363	9948	116
40°	12203	11759	10349	6861	78
45°	12537	11997	10352	126	50
50°	12974	12297	10357	93	18
55°	13468	12647	10328	62	10
60°	14008	13077	10236	23	12
65°	14666	13594	10050	28	28
70°	15646	14164	9733	34	34
75°	17126	15074	9312	93	45
80°	20096	16867	8622	138	67
85°	29912	23686	8076	208	134

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 87.5°

Luminance: 51291 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.1	3.5
10°-20°	460.2	10.6
20°-30°	707.4	16.3
30°-40°	758.1	17.4
40°-50°	688.6	15.8
50°-60°	628.1	14.4
60°-70°	467.2	10.7
70°-80°	328.9	7.6
80°-90°	159.3	3.7
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°	1321.8	30.4
0°-40°	2079.9	47.8
0°-60°	3396.6	78.0
0°-90°	4352.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4352.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1608	1608	1608	1608	1608	
5°	1680	1642	1584	1581	1586	163
15°	1918	1761	1536	1503	1495	530
25°	1651	1774	1448	1394	1384	768
35°	1511	1480	1311	1258	15	946
45°	1369	1310	1130	14	6	1058
55°	1193	1120	915	6	1	1065
65°	957	887	656	2	2	948
75°	684	602	372	4	2	722
85°	403	319	109	3	2	404
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5
2.5°	1641.7	1623.2	1618.6	1631.5	1584.6	1615.9	1590.1	1595.6	1595.6
5°	1680.4	1654.6	1641.7	1638.0	1583.6	1604.8	1580.9	1580.9	1586.4
7.5°	1707.1	1678.5	1655.5	1646.3	1575.3	1593.8	1566.1	1566.1	1566.1
10°	1779.9	1726.4	1669.3	1652.7	1565.2	1579.0	1546.8	1548.6	1542.2
12.5°	1865.5	1817.6	1696.0	1650.0	1554.2	1560.6	1526.5	1525.6	1518.2
15°	1918.1	1882.1	1761.4	1646.3	1535.7	1541.3	1502.6	1499.8	1495.2
17.5°	1888.6	1883.0	1806.6	1643.5	1519.1	1514.5	1475.8	1473.1	1469.4
20°	1806.6	1820.4	1843.4	1638.0	1498.0	1488.7	1450.1	1448.2	1445.4
22.5°	1715.4	1729.2	1826.8	1647.2	1472.2	1461.1	1422.4	1420.6	1416.9
25°	1650.9	1650.9	1774.3	1669.3	1448.2	1427.9	1393.9	1391.1	1383.7
27.5°	1605.7	1597.5	1696.0	1694.2	1417.8	1394.8	1363.5	1360.7	1351.5
30°	1570.7	1556.9	1609.4	1706.2	1383.7	1358.8	1330.3	1327.5	1138.7
32.5°	1539.4	1524.7	1536.7	1716.3	1349.6	1320.2	1295.3	924.0	40.5
35°	1510.9	1494.3	1480.5	1708.9	1310.9	1281.5	1258.4	26.7	14.7
37.5°	1478.6	1465.7	1434.4	1670.2	1269.5	1240.0	1217.9	14.7	12.9
40°	1443.6	1431.6	1391.1	1613.1	1224.3	1199.5	811.6	12.9	9.2
42.5°	1407.7	1398.5	1350.6	1530.2	1179.2	1154.3	25.8	10.1	7.4
45°	1369.0	1360.7	1310.0	1429.8	1130.4	1107.3	13.8	7.4	5.5
47.5°	1329.4	1317.4	1267.6	1322.0	1080.6	1057.6	12.0	5.5	3.7
50°	1287.9	1275.0	1220.7	1227.1	1028.1	1005.1	9.2	3.7	1.8
52.5°	1241.9	1226.2	1170.9	1141.4	972.8	951.7	7.4	1.8	0.9
55°	1193.0	1175.5	1120.2	1066.8	914.8	890.9	5.5	1.8	0.9
57.5°	1138.7	1119.3	1066.8	995.9	853.1	602.5	3.7	1.8	0.9
60°	1081.6	1062.2	1009.7	929.5	790.4	41.5	1.8	1.8	0.9
62.5°	1020.7	1000.5	949.8	862.3	723.2	34.1	1.8	1.8	1.8
65°	957.2	933.2	887.2	793.2	655.9	28.6	1.8	1.8	1.8
67.5°	893.6	863.2	819.9	722.3	586.8	24.0	1.8	1.8	1.8
70°	826.4	793.2	748.1	650.4	514.1	19.3	1.8	1.8	1.8
72.5°	757.3	725.0	676.2	577.6	445.9	14.7	1.8	1.8	1.8
75°	684.5	655.0	602.5	504.8	372.2	11.1	3.7	1.8	1.8
77.5°	608.9	585.9	527.0	430.2	300.3	7.4	3.7	1.8	1.8
80°	538.9	513.1	452.3	354.7	231.2	5.5	3.7	2.8	1.8
82.5°	467.1	444.0	383.2	285.6	165.8	4.6	3.7	2.8	1.8
85°	402.6	380.5	318.8	222.9	108.7	3.7	2.8	2.8	1.8
87.5°	345.5	325.2	264.4	163.1	61.7	2.8	2.8	2.8	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)