

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: P895372

Luminaire Tested: 8TMB-SC3-ASYMR-UNV-CC83-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895372
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-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 80CRI, 5000K CCT, LOW setting
Light Source: -
Ballast/Driver: -

Summary

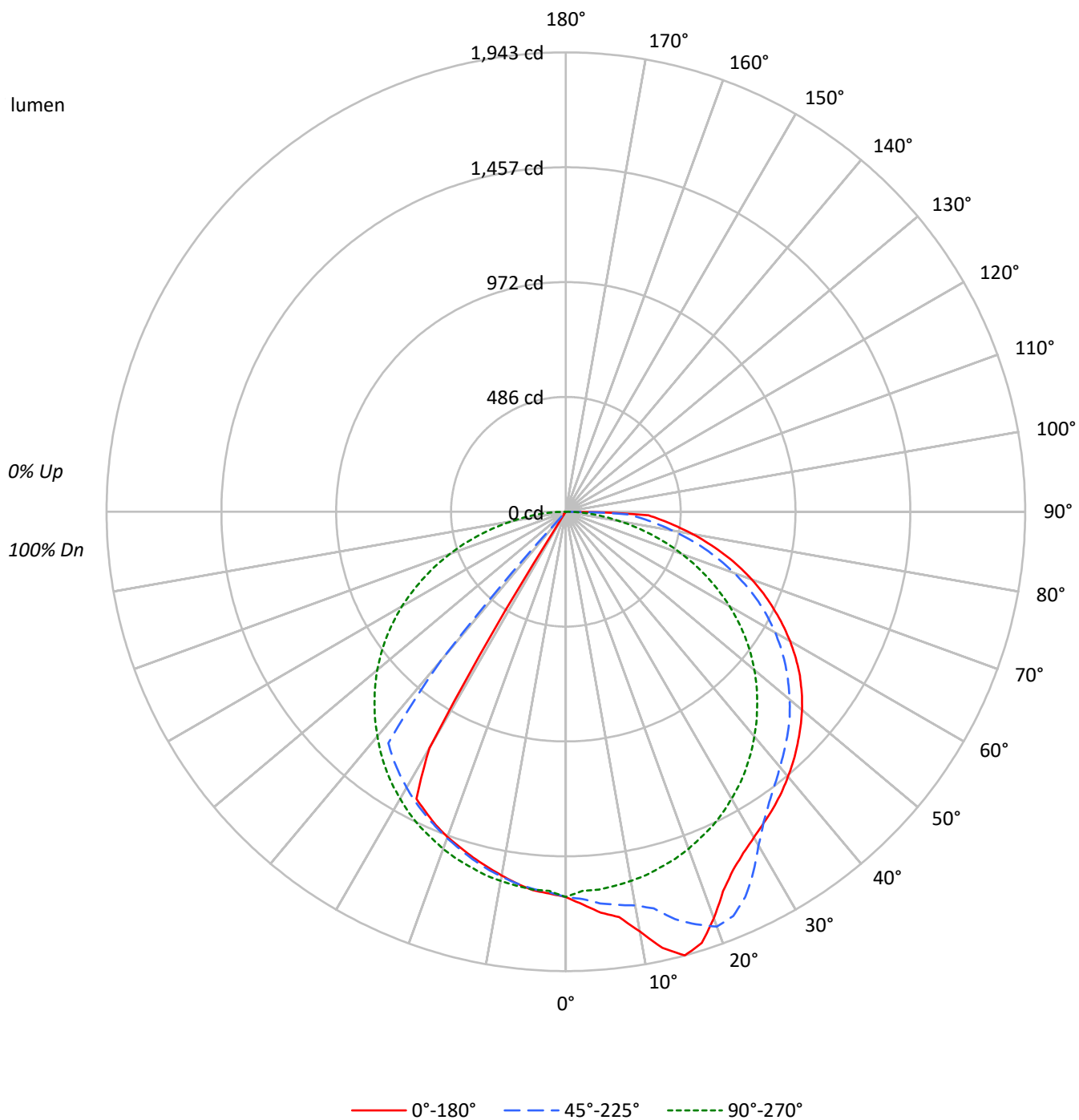
Lumens per Lamp: N/A
Luminaire Lumens: 4408.0 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.25
Luminous Opening: Rectangular (W 0.21' x L: 7.98' x H: 0')
CIE Type: Direct

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			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	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°	10550	10550	10550	10550	10550
5°	11063	10809	10426	10408	10444
10°	11854	11118	10425	10302	10271
15°	13024	11960	10428	10203	10152
20°	12609	12866	10455	10121	10088
25°	11947	12841	10480	10087	10014
30°	11895	12189	10479	10075	8623
35°	12097	11854	10496	10076	118
40°	12360	11910	10483	6949	79
45°	12698	12151	10485	128	51
50°	13142	12456	10490	94	19
55°	13642	12810	10461	63	10
60°	14188	13245	10368	25	12
65°	14855	13769	10180	29	29
70°	15847	14345	9858	36	36
75°	17346	15269	9432	93	48
80°	20357	17087	8733	138	71
85°	30299	23991	8180	208	141

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 87.5°

Luminance: 51944 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	3.5
10°-20°	466.1	10.6
20°-30°	716.5	16.3
30°-40°	767.9	17.4
40°-50°	697.4	15.8
50°-60°	636.2	14.4
60°-70°	473.3	10.7
70°-80°	333.1	7.6
80°-90°	161.4	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°	1338.8	30.4
0°-40°	2106.7	47.8
0°-60°	3440.3	78.0
0°-90°	4408.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4408.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1629	1629	1629	1629	1629	
5°	1702	1663	1604	1601	1607	165
15°	1943	1784	1556	1522	1514	536
25°	1672	1797	1467	1412	1402	778
35°	1530	1500	1328	1275	15	959
45°	1387	1327	1145	14	6	1071
55°	1208	1135	927	6	1	1079
65°	970	899	664	2	2	960
75°	693	610	377	4	2	731
85°	408	323	110	3	2	410
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°	1629.2	1629.2	1629.2	1629.2	1629.2	1629.2	1629.2	1629.2	1629.2
2.5°	1662.8	1644.1	1639.5	1652.5	1604.9	1636.7	1610.5	1616.1	1616.1
5°	1702.0	1675.9	1662.8	1659.1	1604.0	1625.5	1601.2	1601.2	1606.8
7.5°	1729.0	1700.1	1676.8	1667.5	1595.6	1614.3	1586.3	1586.3	1586.3
10°	1802.8	1748.6	1690.8	1674.0	1585.4	1599.3	1566.7	1568.6	1562.0
12.5°	1889.5	1841.0	1717.9	1671.2	1574.2	1580.7	1546.2	1545.2	1537.8
15°	1942.7	1906.3	1784.1	1667.5	1555.5	1561.1	1521.9	1519.1	1514.4
17.5°	1912.9	1907.3	1829.8	1664.7	1538.7	1534.0	1494.8	1492.0	1488.3
20°	1829.8	1843.8	1867.1	1659.1	1517.2	1507.9	1468.7	1466.8	1464.0
22.5°	1737.4	1751.4	1850.4	1668.4	1491.1	1479.9	1440.7	1438.9	1435.1
25°	1672.1	1672.1	1797.2	1690.8	1466.8	1446.3	1411.8	1409.0	1401.5
27.5°	1626.4	1618.0	1717.9	1716.0	1436.1	1412.7	1381.0	1378.2	1368.9
30°	1590.9	1577.0	1630.1	1728.1	1401.5	1376.3	1347.4	1344.6	1153.3
32.5°	1559.2	1544.3	1556.4	1738.4	1367.0	1337.1	1312.0	935.9	41.1
35°	1530.3	1513.5	1499.5	1730.9	1327.8	1298.0	1274.6	27.1	14.9
37.5°	1497.6	1484.6	1452.8	1691.7	1285.8	1256.0	1233.6	14.9	13.1
40°	1462.2	1450.1	1409.0	1633.9	1240.1	1214.9	822.1	13.1	9.3
42.5°	1425.8	1416.5	1367.9	1549.9	1194.4	1169.2	26.1	10.3	7.5
45°	1386.6	1378.2	1326.9	1448.2	1144.9	1121.6	14.0	7.5	5.6
47.5°	1346.5	1334.3	1284.0	1339.0	1094.5	1071.2	12.1	5.6	3.7
50°	1304.5	1291.4	1236.4	1242.9	1041.3	1018.0	9.3	3.7	1.9
52.5°	1257.8	1242.0	1186.0	1156.1	985.4	963.9	7.5	1.9	0.9
55°	1208.4	1190.6	1134.7	1080.5	926.6	902.3	5.6	1.9	0.9
57.5°	1153.3	1133.7	1080.5	1008.7	864.1	610.3	3.7	1.9	0.9
60°	1095.5	1075.9	1022.7	941.5	800.6	42.0	1.9	1.9	0.9
62.5°	1033.9	1013.4	962.0	873.4	732.5	34.5	1.9	1.9	1.9
65°	969.5	945.2	898.6	803.4	664.4	28.9	1.9	1.9	1.9
67.5°	905.1	874.3	830.5	731.6	594.4	24.3	1.9	1.9	1.9
70°	837.0	803.4	757.7	658.8	520.7	19.6	1.9	1.9	1.9
72.5°	767.0	734.4	684.9	585.1	451.6	14.9	1.9	1.9	1.9
75°	693.3	663.4	610.3	511.3	377.0	11.2	3.7	1.9	1.9
77.5°	616.8	593.5	533.7	435.8	304.2	7.5	3.7	1.9	1.9
80°	545.9	519.7	458.2	359.2	234.2	5.6	3.7	2.8	1.9
82.5°	473.1	449.8	388.2	289.3	168.0	4.7	3.7	2.8	1.9
85°	407.8	385.4	322.9	225.8	110.1	3.7	2.8	2.8	1.9
87.5°	349.9	329.4	267.8	165.2	62.5	2.8	2.8	2.8	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)