

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: P895379

Luminaire Tested: 8TMB-SC3-ASYMR-UNV-CC93-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895379
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-CC93-LOW-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 90CRI, 3500K CCT, LOW setting
Light Source: -
Ballast/Driver: -

Summary

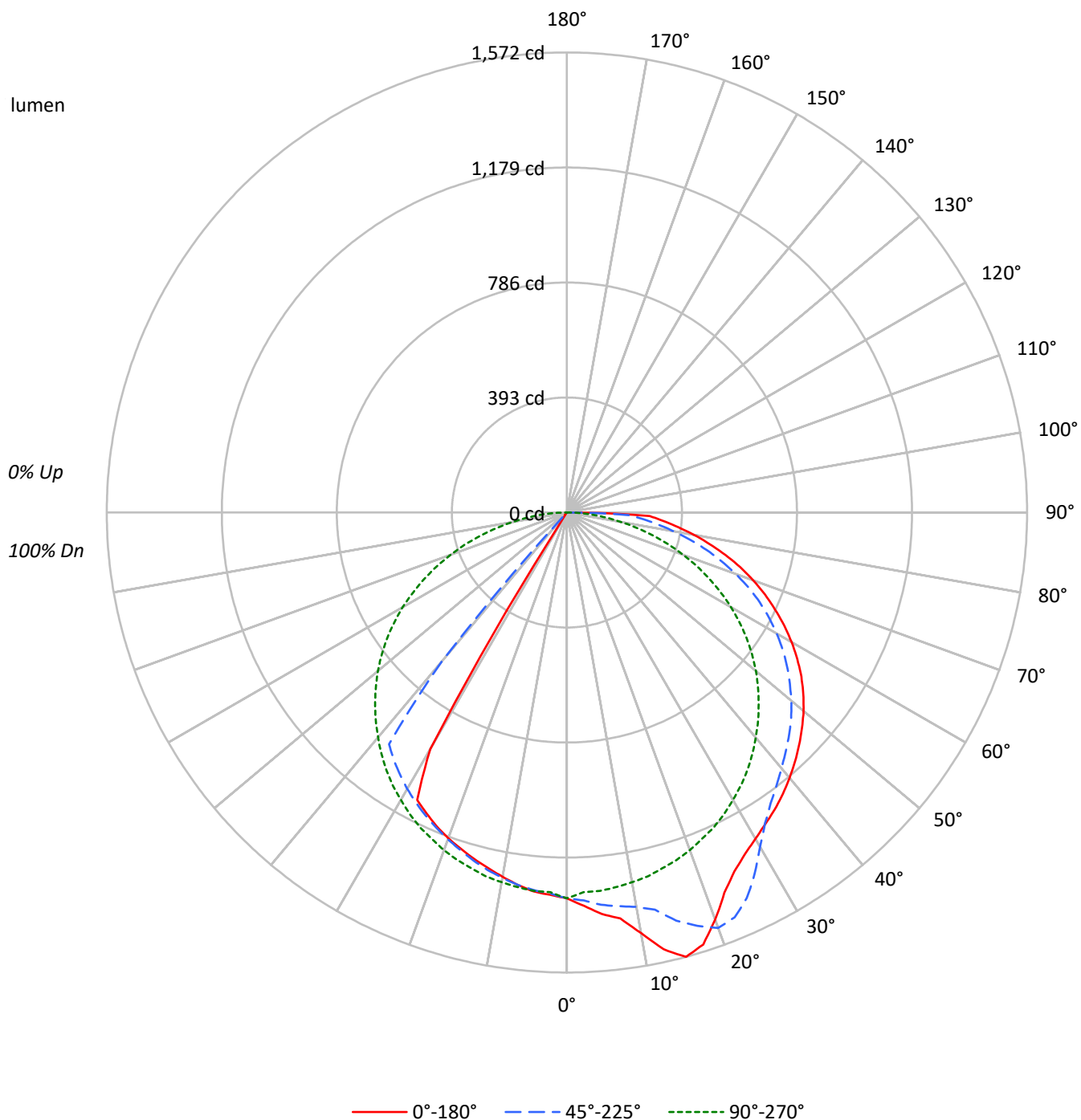
Lumens per Lamp: N/A
Luminaire Lumens: 3567.0 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.25
Luminous Opening: Rectangular (W 0.21' x L: 7.98' x H: 0')
CIE Type: Direct

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°	8537	8537	8537	8537	8537
5°	8953	8747	8437	8422	8452
10°	9592	8996	8436	8336	8311
15°	10539	9678	8438	8256	8216
20°	10204	10412	8461	8190	8164
25°	9668	10391	8481	8162	8103
30°	9626	9863	8480	8152	6978
35°	9789	9592	8494	8153	96
40°	10002	9638	8483	5623	64
45°	10276	9833	8485	103	41
50°	10634	10079	8489	77	15
55°	11039	10366	8465	51	9
60°	11481	10718	8391	19	10
65°	12020	11141	8237	23	23
70°	12823	11608	7976	28	28
75°	14036	12354	7633	75	38
80°	16471	13824	7067	112	56
85°	24518	19414	6620	171	111

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 87.5°

Luminance: 42042 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.3	3.5
10°-20°	377.2	10.6
20°-30°	579.8	16.3
30°-40°	621.4	17.4
40°-50°	564.4	15.8
50°-60°	514.8	14.4
60°-70°	383.0	10.7
70°-80°	269.5	7.6
80°-90°	130.6	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°	1083.4	30.4
0°-40°	1704.8	47.8
0°-60°	2783.9	78.0
0°-90°	3567.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3567.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1318	1318	1318	1318	1318	
5°	1377	1346	1298	1296	1300	133
15°	1572	1444	1259	1232	1226	434
25°	1353	1454	1187	1142	1134	629
35°	1238	1213	1074	1031	12	776
45°	1122	1074	926	11	4	867
55°	978	918	750	4	1	873
65°	784	727	538	2	2	777
75°	561	494	305	3	2	592
85°	330	261	89	2	2	331
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°	1318.4	1318.4	1318.4	1318.4	1318.4	1318.4	1318.4	1318.4	1318.4
2.5°	1345.6	1330.5	1326.7	1337.2	1298.7	1324.4	1303.3	1307.8	1307.8
5°	1377.3	1356.1	1345.6	1342.5	1298.0	1315.4	1295.7	1295.7	1300.2
7.5°	1399.2	1375.8	1356.9	1349.3	1291.2	1306.3	1283.6	1283.6	1283.6
10°	1458.8	1415.0	1368.2	1354.6	1282.9	1294.2	1267.8	1269.3	1264.0
12.5°	1529.0	1489.8	1390.1	1352.4	1273.8	1279.1	1251.2	1250.4	1244.4
15°	1572.1	1542.6	1443.7	1349.3	1258.7	1263.3	1231.5	1229.3	1225.5
17.5°	1547.9	1543.4	1480.7	1347.1	1245.1	1241.4	1209.6	1207.4	1204.4
20°	1480.7	1492.0	1510.9	1342.5	1227.8	1220.2	1188.5	1187.0	1184.7
22.5°	1406.0	1417.3	1497.3	1350.1	1206.6	1197.6	1165.8	1164.3	1161.3
25°	1353.1	1353.1	1454.3	1368.2	1187.0	1170.4	1142.4	1140.2	1134.1
27.5°	1316.1	1309.3	1390.1	1388.6	1162.1	1143.2	1117.5	1115.3	1107.7
30°	1287.4	1276.1	1319.1	1398.4	1134.1	1113.7	1090.3	1088.1	933.3
32.5°	1261.7	1249.7	1259.5	1406.7	1106.2	1082.0	1061.6	757.3	33.2
35°	1238.3	1224.7	1213.4	1400.7	1074.5	1050.3	1031.4	21.9	12.1
37.5°	1211.9	1201.3	1175.7	1369.0	1040.5	1016.3	998.2	12.1	10.6
40°	1183.2	1173.4	1140.2	1322.1	1003.5	983.1	665.2	10.6	7.6
42.5°	1153.8	1146.2	1106.9	1254.2	966.5	946.1	21.1	8.3	6.0
45°	1122.1	1115.3	1073.7	1171.9	926.5	907.6	11.3	6.0	4.5
47.5°	1089.6	1079.8	1039.0	1083.5	885.7	866.8	9.8	4.5	3.0
50°	1055.6	1045.0	1000.5	1005.8	842.7	823.8	7.6	3.0	1.5
52.5°	1017.8	1005.0	959.7	935.5	797.4	780.0	6.0	1.5	0.8
55°	977.8	963.5	918.2	874.4	749.8	730.2	4.5	1.5	0.8
57.5°	933.3	917.4	874.4	816.2	699.2	493.8	3.0	1.5	0.8
60°	886.5	870.6	827.6	761.9	647.9	34.0	1.5	1.5	0.8
62.5°	836.6	820.0	778.5	706.8	592.7	27.9	1.5	1.5	1.5
65°	784.5	764.9	727.1	650.1	537.6	23.4	1.5	1.5	1.5
67.5°	732.4	707.5	672.0	592.0	481.0	19.6	1.5	1.5	1.5
70°	677.3	650.1	613.1	533.1	421.3	15.9	1.5	1.5	1.5
72.5°	620.7	594.2	554.2	473.4	365.5	12.1	1.5	1.5	1.5
75°	561.0	536.9	493.8	413.8	305.1	9.1	3.0	1.5	1.5
77.5°	499.1	480.2	431.9	352.6	246.2	6.0	3.0	1.5	1.5
80°	441.7	420.6	370.7	290.7	189.5	4.5	3.0	2.3	1.5
82.5°	382.8	363.9	314.1	234.1	135.9	3.8	3.0	2.3	1.5
85°	330.0	311.8	261.3	182.7	89.1	3.0	2.3	2.3	1.5
87.5°	283.2	266.5	216.7	133.6	50.6	2.3	2.3	2.3	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)