

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: P895336

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895336
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-185-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-ASMF-UNV-CC83-LOW-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 80CRI, 5000K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

Summary

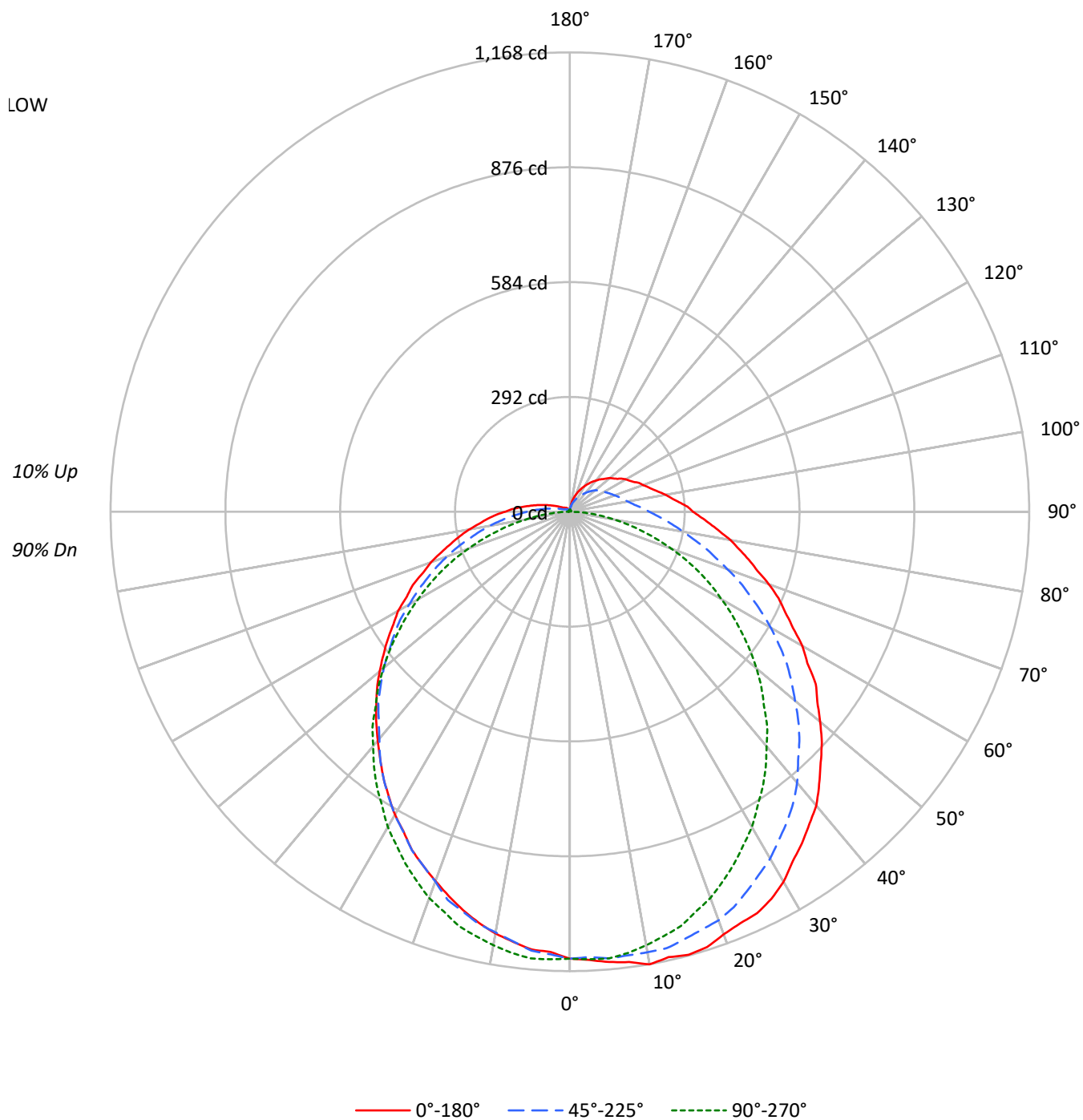
Lumens per Lamp: N/A
Luminaire Lumens: 3906.0 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.21 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

Input Watts (W): 33.5
Input Voltage (V): 120
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	50	30	10
RCR																				
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90		
1	105	99	95	90	101	96	92	88	90	87	83	85	82	79	79	77	75	72		
2	95	86	79	72	91	83	76	71	78	72	68	73	69	65	69	65	62	59		
3	86	75	66	60	83	73	65	58	68	62	56	64	59	54	60	56	52	49		
4	79	66	57	50	76	64	56	49	61	53	48	57	51	46	54	49	44	42		
5	72	59	50	43	69	57	49	42	54	47	41	51	45	40	48	43	38	36		
6	67	53	44	37	64	52	43	37	49	41	36	46	40	35	44	38	34	31		
7	62	48	39	33	59	47	38	32	44	37	32	42	36	31	40	34	30	28		
8	57	44	35	29	55	43	35	29	41	33	28	39	32	27	37	31	27	25		
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22		
10	50	37	29	24	49	36	29	23	34	28	23	33	27	22	31	26	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5770	5770	5770	5770	5770
5°	5851	5643	5583	5544	5688
10°	6009	5529	5329	5281	5600
15°	6106	5418	5092	5065	5490
20°	6145	5310	4823	4805	5370
25°	6266	5144	4539	4589	5280
30°	6316	4984	4270	4355	5170
35°	6312	4809	3987	4130	5069
40°	6382	4627	3696	3875	4970
45°	6379	4412	3410	3682	4921
50°	6445	4189	3134	3461	4895
55°	6612	3997	2819	3238	4895
60°	6752	3757	2495	3002	4983
65°	7027	3497	2168	2766	5125
70°	7666	3249	1777	2542	5346
75°	8730	3071	1359	2280	5791
80°	11123	2900	910	2050	6973
85°	17713	2873	457	1813	10413

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 101470 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	2.8
10°-20°	308.9	7.9
20°-30°	465.9	11.9
30°-40°	559.2	14.3
40°-50°	582.2	14.9
50°-60°	539.7	13.8
60°-70°	444.5	11.4
70°-80°	320.6	8.2
80°-90°	203.5	5.2
90°-100°	125.5	3.2
100°-110°	83.7	2.1
110°-120°	59.6	1.5
120°-130°	43.7	1.1
130°-140°	30.0	0.8
140°-150°	18.3	0.5
150°-160°	9.1	0.2
160°-170°	3.3	0.1
170°-180°	0.6	0.0
0°-30°	882.6	22.6
0°-40°	1441.8	36.9
0°-60°	2563.7	65.6
0°-90°	3532.4	90.4
90°-120°	268.7	6.9
90°-150°	360.7	9.2
90°-180°	374.0	9.6
0°-180°	3906.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1136	1136	1136	1136	1136	
5°	1149	1140	1140	1120	1117	110
15°	1166	1125	1091	1052	1049	329
25°	1126	1065	988	950	949	518
35°	1029	962	855	826	826	645
45°	902	825	698	689	696	698
55°	764	673	532	545	565	678
65°	604	506	362	400	441	602
75°	471	357	191	265	312	499
85°	358	243	50	153	211	304
90°	313	202	4	109	164	173
95°	279	171	3	73	127	222
105°	219	134	3	30	66	234
115°	180	111	3	14	32	180
125°	146	93	4	11	18	133
135°	117	74	4	8	14	92
145°	90	52	4	6	10	57
155°	61	35	4	4	6	29
165°	36	20	4	3	3	10
175°	5	8	5	2	1	1
180°	3	3	3	3	3	

TEST NUMBER: P895336

CATALOG NUMBER: 8TMB-SC3-ASMF-UNV-CC83-LOW-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1136.1	1136.1	1136.1	1136.1	1136.1	1136.1	1136.1	1136.1	1136.1
2.5°	1140.6	1144.0	1133.2	1140.1	1138.9	1140.1	1126.4	1137.8	1120.2
5°	1149.2	1150.9	1140.1	1144.0	1140.1	1130.4	1120.2	1116.2	1117.3
7.5°	1154.8	1163.9	1137.2	1138.4	1131.5	1121.3	1102.0	1105.4	1103.1
10°	1168.5	1158.2	1137.2	1132.1	1119.0	1108.3	1086.1	1087.8	1088.9
12.5°	1159.9	1157.7	1136.7	1117.9	1104.8	1095.8	1073.0	1067.4	1070.2
15°	1166.2	1156.5	1125.3	1110.5	1090.6	1074.7	1052.0	1048.0	1048.6
17.5°	1160.5	1152.6	1113.9	1093.5	1065.7	1056.0	1034.4	1027.6	1024.2
20°	1143.5	1139.5	1105.4	1070.2	1045.2	1026.5	1000.3	996.4	999.2
22.5°	1132.1	1122.5	1088.4	1053.2	1016.8	1000.3	974.2	973.6	974.2
25°	1126.4	1113.9	1065.1	1028.2	987.8	973.1	950.3	941.8	949.2
27.5°	1109.4	1098.0	1040.7	1000.3	955.5	935.6	916.8	915.1	916.3
30°	1086.7	1064.5	1018.5	969.1	925.9	905.5	890.1	878.8	889.6
32.5°	1054.3	1041.8	989.5	935.6	887.9	873.7	858.3	857.2	857.2
35°	1029.3	1020.2	962.3	906.0	854.9	835.6	826.5	822.5	826.5
37.5°	1000.3	986.7	933.3	870.2	818.0	801.5	792.4	789.0	791.9
40°	975.3	950.3	899.2	833.3	777.7	762.9	753.2	756.6	759.5
42.5°	938.4	924.2	858.9	795.8	743.0	727.1	719.1	722.0	728.8
45°	902.1	889.0	825.4	756.6	698.1	689.6	689.0	687.3	695.9
47.5°	869.1	850.4	788.4	718.0	660.6	651.0	652.1	657.8	665.2
50°	831.0	808.9	747.5	676.5	619.2	612.9	617.5	621.4	631.1
52.5°	793.0	775.4	710.1	637.3	577.1	572.6	578.8	591.9	597.6
55°	763.5	731.6	673.1	591.3	532.3	532.8	545.3	552.7	565.2
57.5°	716.3	692.4	631.1	550.4	490.2	494.2	511.2	523.7	531.7
60°	682.8	652.7	590.2	506.7	445.9	452.2	471.5	490.2	503.9
62.5°	639.6	613.5	547.6	463.5	405.0	414.1	435.7	457.8	467.5
65°	604.4	574.9	505.6	420.4	362.4	373.2	399.9	424.9	440.8
67.5°	574.3	543.6	468.1	380.6	319.2	335.1	366.4	390.8	403.3
70°	538.5	502.7	425.5	336.3	274.4	293.1	332.9	361.3	375.5
72.5°	500.4	471.5	388.5	295.4	232.9	255.6	299.4	328.9	342.5
75°	470.9	438.5	357.3	254.5	190.9	218.1	265.3	298.8	312.4
77.5°	440.8	411.3	322.1	217.0	153.4	184.0	235.2	272.1	286.3
80°	414.1	380.0	292.5	186.3	114.2	150.5	206.8	243.1	259.6
82.5°	384.6	355.0	267.0	153.9	81.2	119.9	178.9	218.7	232.3
85°	358.4	327.8	243.1	128.4	50.0	92.6	153.4	194.3	210.7
87.5°	334.6	309.0	221.0	109.1	25.0	70.4	128.9	170.4	189.2
90°	313.0	284.0	202.2	91.5	4.5	51.1	109.1	150.0	164.2
92.5°	299.4	264.7	186.9	80.1	2.8	36.4	90.9	131.2	147.7
95°	278.9	248.2	171.0	71.6	2.8	24.4	73.3	112.5	126.7
97.5°	261.3	232.9	159.6	66.5	2.3	16.5	60.2	94.3	109.1
100°	247.7	221.0	149.4	61.9	2.8	11.9	47.7	80.1	93.2
102.5°	232.3	207.9	141.4	59.1	2.8	8.5	37.5	67.6	79.5
105°	218.7	197.1	134.1	56.2	2.8	7.4	30.1	55.7	66.5
107.5°	208.5	185.8	127.8	54.5	2.8	7.4	23.9	45.4	54.5
110°	198.2	176.7	121.6	52.8	2.8	6.8	18.7	37.5	45.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	191.4	168.1	115.9	51.1	3.4	6.8	15.3	31.2	37.5
115°	179.5	160.8	110.8	50.6	3.4	6.2	14.2	25.6	31.8
117.5°	171.0	153.9	105.7	48.9	3.4	6.2	13.6	21.0	25.6
120°	164.7	146.0	101.1	47.1	3.4	5.7	12.5	18.7	21.6
122.5°	156.8	138.6	97.1	46.0	3.4	5.7	11.9	17.6	19.3
125°	146.0	131.8	92.6	43.7	4.0	5.7	11.4	16.5	18.2
127.5°	139.2	125.5	89.2	40.9	4.0	5.1	10.8	15.3	17.0
130°	133.5	118.7	85.2	38.1	4.0	5.1	10.2	14.2	15.9
132.5°	125.0	111.9	79.5	35.8	4.0	4.5	9.1	13.1	14.8
135°	117.0	106.2	73.8	33.5	4.0	4.5	8.5	12.5	13.6
137.5°	111.9	100.5	68.7	31.2	4.0	4.0	8.0	11.4	12.5
140°	103.4	94.3	63.1	29.0	4.0	4.0	7.4	10.8	11.4
142.5°	97.1	88.0	57.9	26.7	4.0	4.0	6.8	9.7	10.8
145°	89.8	81.8	52.3	24.4	4.0	3.4	6.2	9.1	9.7
147.5°	82.9	74.4	47.7	22.7	4.0	3.4	5.7	8.0	8.5
150°	76.1	67.0	43.2	21.0	4.0	3.4	5.1	6.8	8.0
152.5°	68.7	57.9	38.6	19.3	4.0	3.4	4.5	6.2	6.8
155°	61.3	50.6	34.7	17.6	4.5	3.4	4.0	5.1	6.2
157.5°	55.1	43.7	30.7	15.9	4.5	2.8	4.0	4.5	5.1
160°	47.7	37.5	27.3	14.2	4.5	2.8	3.4	4.0	4.5
162.5°	42.0	31.2	23.9	13.1	4.5	2.8	3.4	3.4	4.0
165°	35.8	26.1	19.9	11.9	4.5	2.8	2.8	2.8	3.4
167.5°	29.0	20.4	16.5	10.8	4.5	2.8	2.8	2.3	2.8
170°	21.6	15.3	13.6	9.7	4.5	2.8	2.3	1.7	2.3
172.5°	9.7	11.9	10.8	8.5	5.1	2.8	2.3	1.7	1.1
175°	5.1	8.5	8.5	7.4	5.1	2.8	2.3	1.7	0.6
177.5°	4.0	5.1	6.2	6.2	5.1	3.4	2.3	1.1	0.6
180°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4

(END OF REPORT)