

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: P895334

Luminaire Tested: 8TMB-SC3-ASMF-UNV-CC83-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895334
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-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 80CRI, 3500K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

Summary

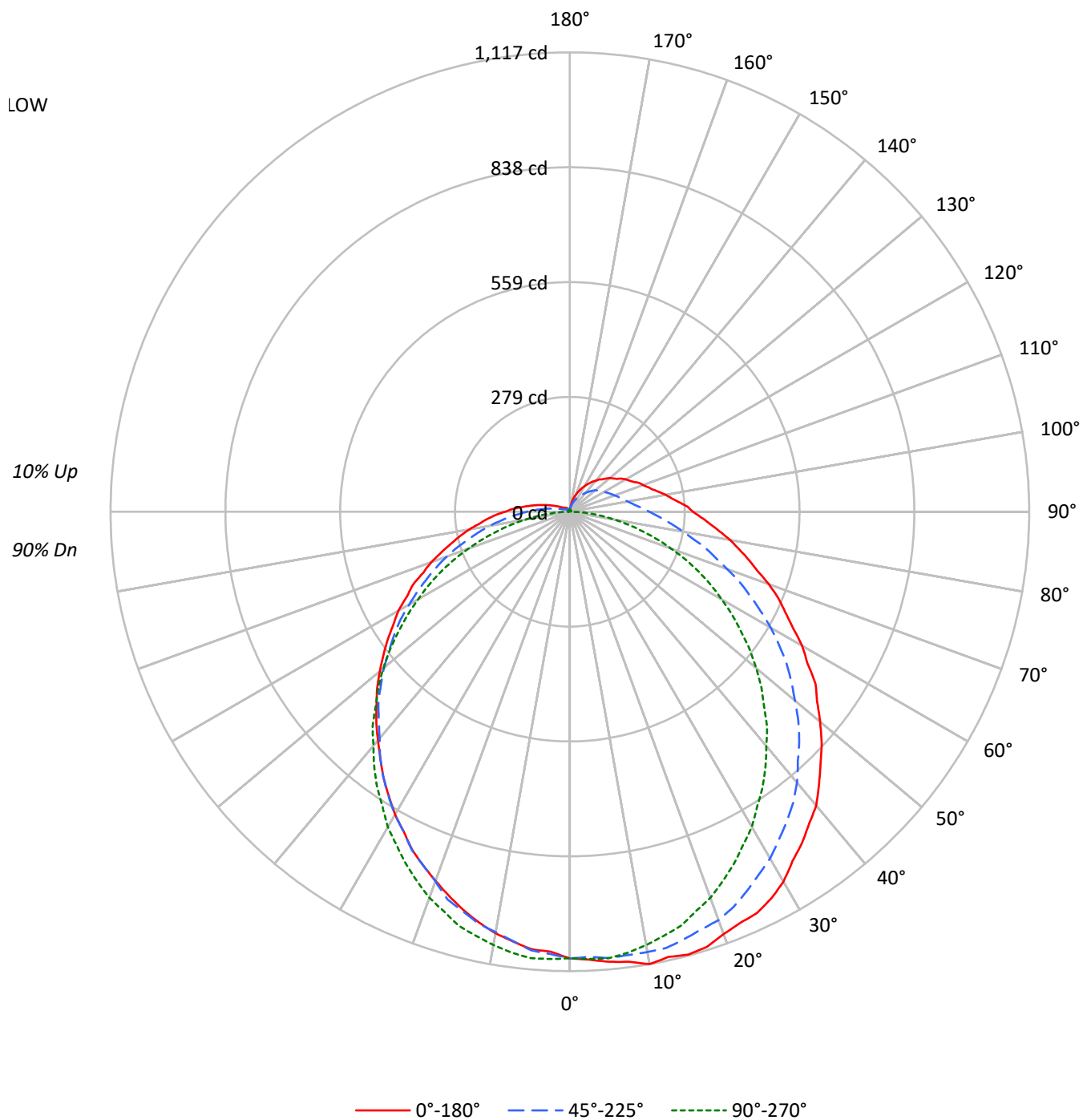
Lumens per Lamp: N/A
Luminaire Lumens: 3733.0 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.21 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

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
RW	70	50	30	10	70	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
1	105	99	95	90	101	96	92	88	90	87	83	85	82	79	79	77	75
2	95	86	79	72	91	83	76	71	78	72	68	73	69	65	69	65	62
3	86	75	66	60	83	73	65	58	68	62	56	64	59	54	60	56	52
4	79	66	57	50	76	64	56	49	61	53	48	57	51	46	54	49	44
5	72	59	50	43	69	57	49	42	54	47	41	51	45	40	48	43	38
6	67	53	44	37	64	52	43	37	49	41	36	46	40	35	44	38	34
7	62	48	39	33	59	47	38	32	44	37	32	42	36	31	40	34	30
8	57	44	35	29	55	43	35	29	41	33	28	39	32	27	37	31	27
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24
10	50	37	29	24	49	36	29	23	34	28	23	33	27	22	31	26	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5514	5514	5514	5514	5514
5°	5592	5393	5335	5299	5437
10°	5743	5285	5093	5047	5352
15°	5835	5178	4867	4840	5247
20°	5873	5075	4609	4592	5132
25°	5989	4916	4338	4386	5047
30°	6036	4763	4081	4163	4941
35°	6033	4595	3810	3947	4844
40°	6099	4422	3532	3704	4749
45°	6096	4216	3259	3519	4703
50°	6160	4004	2995	3307	4678
55°	6319	3820	2694	3095	4678
60°	6453	3591	2385	2869	4762
65°	6716	3342	2072	2644	4898
70°	7327	3105	1698	2429	5108
75°	8344	2935	1299	2179	5536
80°	10631	2772	870	1959	6664
85°	16932	2747	437	1733	9954

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 96963 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.0	2.8
10°-20°	295.3	7.9
20°-30°	445.2	11.9
30°-40°	534.4	14.3
40°-50°	556.4	14.9
50°-60°	515.8	13.8
60°-70°	424.8	11.4
70°-80°	306.4	8.2
80°-90°	194.5	5.2
90°-100°	119.9	3.2
100°-110°	80.0	2.1
110°-120°	56.9	1.5
120°-130°	41.7	1.1
130°-140°	28.7	0.8
140°-150°	17.5	0.5
150°-160°	8.7	0.2
160°-170°	3.2	0.1
170°-180°	0.5	0.0
0°-30°	843.5	22.6
0°-40°	1377.9	36.9
0°-60°	2450.2	65.6
0°-90°	3375.9	90.4
90°-120°	256.8	6.9
90°-150°	344.7	9.2
90°-180°	357.0	9.6
0°-180°	3733.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1086	1086	1086	1086	1086	
5°	1098	1090	1090	1071	1068	105
15°	1114	1076	1042	1005	1002	314
25°	1076	1018	944	908	907	495
35°	984	920	817	790	790	616
45°	862	789	667	658	665	667
55°	730	643	509	521	540	648
65°	578	483	346	382	421	575
75°	450	342	182	254	299	477
85°	343	232	48	147	201	291
90°	299	193	4	104	157	165
95°	267	163	3	70	121	212
105°	209	128	3	29	64	223
115°	172	106	3	14	30	172
125°	140	88	4	11	17	127
135°	112	71	4	8	13	88
145°	86	50	4	6	9	54
155°	59	33	4	4	6	28
165°	34	19	4	3	3	10
175°	5	8	5	2	0	1
180°	3	3	3	3	3	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8
2.5°	1090.1	1093.4	1083.1	1089.6	1088.5	1089.6	1076.5	1087.4	1070.6
5°	1098.3	1099.9	1089.6	1093.4	1089.6	1080.3	1070.6	1066.8	1067.9
7.5°	1103.7	1112.4	1086.9	1087.9	1081.4	1071.7	1053.2	1056.5	1054.3
10°	1116.7	1106.9	1086.9	1082.0	1069.5	1059.2	1038.0	1039.6	1040.7
12.5°	1108.6	1106.4	1086.3	1068.4	1055.9	1047.2	1025.5	1020.1	1022.8
15°	1114.5	1105.3	1075.5	1061.3	1042.3	1027.1	1005.4	1001.6	1002.2
17.5°	1109.1	1101.5	1064.6	1045.1	1018.5	1009.2	988.6	982.1	978.8
20°	1092.8	1089.0	1056.5	1022.8	998.9	981.0	956.0	952.2	954.9
22.5°	1082.0	1072.7	1040.2	1006.5	971.8	956.0	931.0	930.5	931.0
25°	1076.5	1064.6	1017.9	982.6	944.1	930.0	908.2	900.1	907.2
27.5°	1060.3	1049.4	994.6	956.0	913.1	894.1	876.2	874.6	875.7
30°	1038.5	1017.4	973.4	926.2	884.9	865.4	850.7	839.8	850.2
32.5°	1007.6	995.7	945.7	894.1	848.5	835.0	820.3	819.2	819.2
35°	983.7	975.0	919.6	865.9	817.0	798.6	789.9	786.1	789.9
37.5°	956.0	943.0	892.0	831.7	781.8	766.0	757.3	754.1	756.8
40°	932.1	908.2	859.4	796.4	743.2	729.1	719.9	723.1	725.8
42.5°	896.8	883.3	820.8	760.6	710.1	694.9	687.3	690.0	696.5
45°	862.1	849.6	788.8	723.1	667.2	659.1	658.5	656.9	665.0
47.5°	830.6	812.7	753.5	686.2	631.4	622.1	623.2	628.7	635.7
50°	794.2	773.1	714.4	646.6	591.7	585.8	590.1	593.9	603.1
52.5°	757.9	741.0	678.6	609.1	551.6	547.2	553.2	565.7	571.1
55°	729.6	699.2	643.3	565.1	508.7	509.2	521.2	528.2	540.2
57.5°	684.6	661.8	603.1	526.1	468.5	472.3	488.6	500.5	508.1
60°	652.5	623.8	564.1	484.3	426.2	432.1	450.6	468.5	481.5
62.5°	611.3	586.3	523.3	443.0	387.1	395.8	416.4	437.6	446.8
65°	577.6	549.4	483.2	401.7	346.4	356.7	382.2	406.1	421.3
67.5°	548.9	519.5	447.3	363.7	305.1	320.3	350.2	373.5	385.4
70°	514.7	480.5	406.6	321.4	262.2	280.1	318.1	345.3	358.8
72.5°	478.3	450.6	371.3	282.3	222.6	244.3	286.1	314.3	327.4
75°	450.1	419.1	341.5	243.2	182.4	208.5	253.5	285.6	298.6
77.5°	421.3	393.0	307.8	207.4	146.6	175.9	224.8	260.0	273.6
80°	395.8	363.2	279.6	178.1	109.1	143.9	197.6	232.4	248.1
82.5°	367.5	339.3	255.2	147.1	77.6	114.5	171.0	209.0	222.0
85°	342.6	313.2	232.4	122.7	47.8	88.5	146.6	185.7	201.4
87.5°	319.8	295.3	211.2	104.2	23.9	67.3	123.2	162.9	180.8
90°	299.1	271.4	193.3	87.4	4.3	48.9	104.2	143.3	156.9
92.5°	286.1	253.0	178.6	76.5	2.7	34.7	86.9	125.4	141.2
95°	266.6	237.2	163.4	68.4	2.7	23.3	70.0	107.5	121.1
97.5°	249.7	222.6	152.6	63.5	2.2	15.7	57.5	90.1	104.2
100°	236.7	211.2	142.8	59.2	2.7	11.4	45.6	76.5	89.0
102.5°	222.0	198.7	135.2	56.5	2.7	8.1	35.8	64.6	76.0
105°	209.0	188.4	128.1	53.7	2.7	7.1	28.8	53.2	63.5
107.5°	199.2	177.5	122.1	52.1	2.7	7.1	22.8	43.4	52.1
110°	189.5	168.8	116.2	50.5	2.7	6.5	17.9	35.8	43.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	183.0	160.7	110.7	48.9	3.3	6.5	14.7	29.9	35.8
115°	171.6	153.6	105.9	48.3	3.3	6.0	13.6	24.4	30.4
117.5°	163.4	147.1	101.0	46.7	3.3	6.0	13.0	20.1	24.4
120°	157.4	139.5	96.6	45.1	3.3	5.4	11.9	17.9	20.6
122.5°	149.8	132.5	92.8	44.0	3.3	5.4	11.4	16.8	18.5
125°	139.5	125.9	88.5	41.8	3.8	5.4	10.9	15.7	17.4
127.5°	133.0	120.0	85.2	39.1	3.8	4.9	10.3	14.7	16.3
130°	127.6	113.5	81.4	36.4	3.8	4.9	9.8	13.6	15.2
132.5°	119.4	106.9	76.0	34.2	3.8	4.3	8.7	12.5	14.1
135°	111.8	101.5	70.6	32.0	3.8	4.3	8.1	11.9	13.0
137.5°	106.9	96.1	65.7	29.9	3.8	3.8	7.6	10.9	11.9
140°	98.8	90.1	60.3	27.7	3.8	3.8	7.1	10.3	10.9
142.5°	92.8	84.1	55.4	25.5	3.8	3.8	6.5	9.2	10.3
145°	85.8	78.2	49.9	23.3	3.8	3.3	6.0	8.7	9.2
147.5°	79.3	71.1	45.6	21.7	3.8	3.3	5.4	7.6	8.1
150°	72.7	64.1	41.3	20.1	3.8	3.3	4.9	6.5	7.6
152.5°	65.7	55.4	36.9	18.5	3.8	3.3	4.3	6.0	6.5
155°	58.6	48.3	33.1	16.8	4.3	3.3	3.8	4.9	6.0
157.5°	52.7	41.8	29.3	15.2	4.3	2.7	3.8	4.3	4.9
160°	45.6	35.8	26.1	13.6	4.3	2.7	3.3	3.8	4.3
162.5°	40.2	29.9	22.8	12.5	4.3	2.7	3.3	3.3	3.8
165°	34.2	25.0	19.0	11.4	4.3	2.7	2.7	2.7	3.3
167.5°	27.7	19.5	15.7	10.3	4.3	2.7	2.7	2.2	2.7
170°	20.6	14.7	13.0	9.2	4.3	2.7	2.2	1.6	2.2
172.5°	9.2	11.4	10.3	8.1	4.9	2.7	2.2	1.6	1.1
175°	4.9	8.1	8.1	7.1	4.9	2.7	2.2	1.6	0.5
177.5°	3.8	4.9	6.0	6.0	4.9	3.3	2.2	1.1	0.5
180°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3

(END OF REPORT)