

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: P895344

Luminaire Tested: 8TMB-SC3-ASMF-UNV-CC93-LOW-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895344
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-CC93-LOW-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 90CRI, 4000K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

Summary

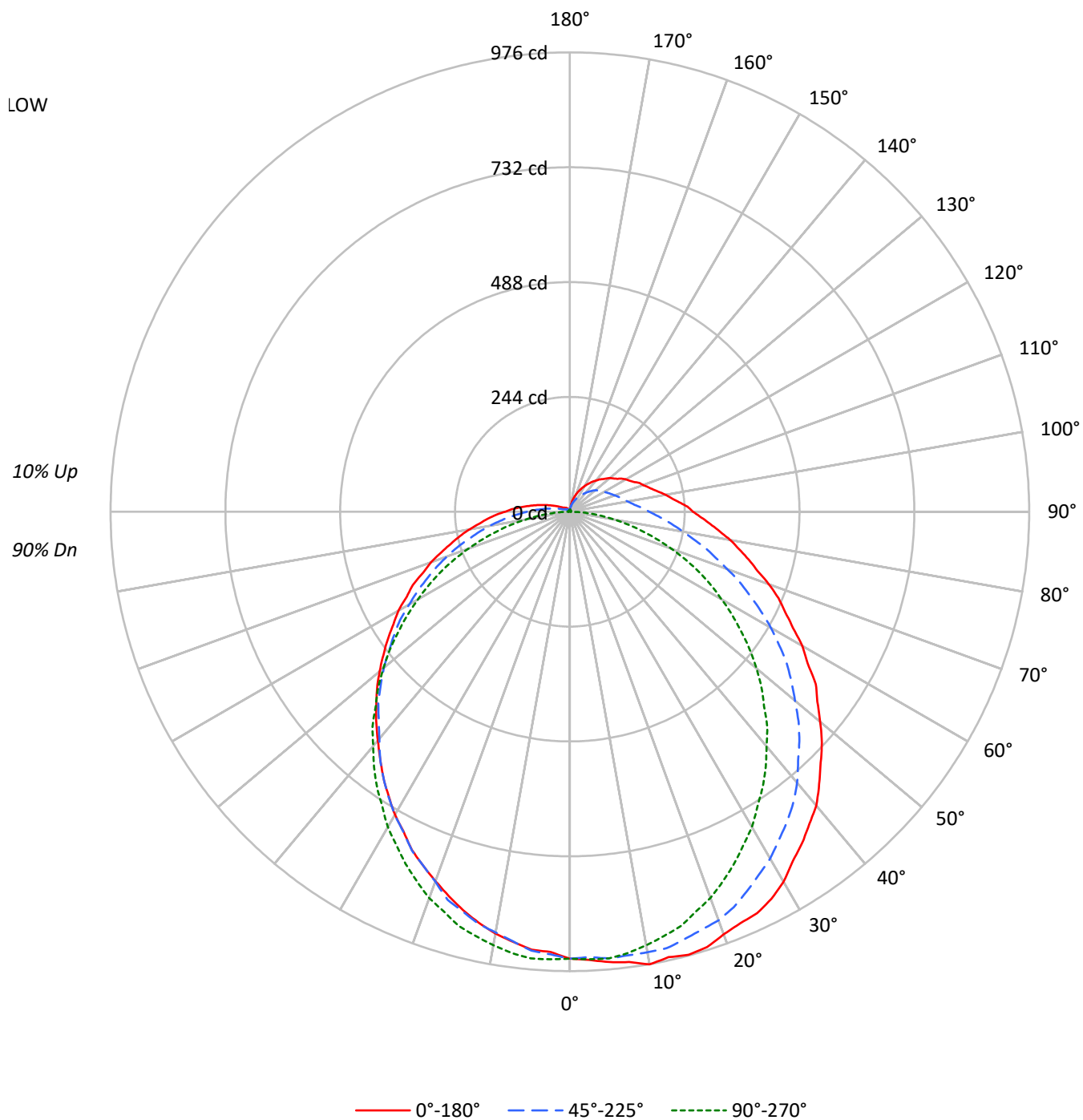
Lumens per Lamp: N/A
Luminaire Lumens: 3264.0 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.21 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

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

TEST NUMBER: P895344

CATALOG NUMBER: 8TMB-SC3-ASMF-UNV-CC93-LOW-4000K

Luminous Intensity Polar Plot



TEST NUMBER: P895344

CATALOG NUMBER: 8TMB-SC3-ASMF-UNV-CC93-LOW-4000K

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°	4822	4822	4822	4822	4822
5°	4889	4715	4665	4633	4754
10°	5021	4621	4453	4413	4680
15°	5102	4527	4255	4232	4588
20°	5135	4437	4030	4015	4487
25°	5237	4298	3793	3835	4413
30°	5278	4164	3568	3639	4320
35°	5275	4018	3331	3451	4236
40°	5333	3866	3088	3238	4153
45°	5331	3686	2849	3077	4112
50°	5387	3501	2619	2892	4091
55°	5526	3340	2355	2706	4090
60°	5643	3140	2085	2508	4163
65°	5873	2922	1811	2312	4283
70°	6406	2715	1485	2124	4467
75°	7295	2566	1136	1905	4840
80°	9294	2424	761	1713	5826
85°	14802	2402	382	1515	8703

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 84774 cd/sqm

TEST NUMBER: P895344

CATALOG NUMBER: 8TMB-SC3-ASMF-UNV-CC93-LOW-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	2.8
10°-20°	258.2	7.9
20°-30°	389.3	11.9
30°-40°	467.2	14.3
40°-50°	486.5	14.9
50°-60°	451.0	13.8
60°-70°	371.4	11.4
70°-80°	267.9	8.2
80°-90°	170.1	5.2
90°-100°	104.9	3.2
100°-110°	69.9	2.1
110°-120°	49.8	1.5
120°-130°	36.5	1.1
130°-140°	25.1	0.8
140°-150°	15.3	0.5
150°-160°	7.6	0.2
160°-170°	2.8	0.1
170°-180°	0.5	0.0
0°-30°	737.5	22.6
0°-40°	1204.8	36.9
0°-60°	2142.3	65.6
0°-90°	2951.8	90.4
90°-120°	224.6	6.9
90°-150°	301.4	9.2
90°-180°	312.0	9.6
0°-180°	3264.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	949	949	949	949	949	
5°	960	953	953	936	934	92
15°	974	940	911	879	876	275
25°	941	890	826	794	793	433
35°	860	804	714	691	691	539
45°	754	690	583	576	582	583
55°	638	562	445	456	472	567
65°	505	422	303	334	368	503
75°	394	299	160	222	261	417
85°	300	203	42	128	176	254
90°	262	169	4	91	137	144
95°	233	143	2	61	106	185
105°	183	112	2	25	56	195
115°	150	93	3	12	27	150
125°	122	77	3	10	15	111
135°	98	62	3	7	11	77
145°	75	44	3	5	8	47
155°	51	29	4	3	5	24
165°	30	17	4	2	3	9
175°	4	7	4	2	0	1
180°	3	3	3	3	3	

TEST NUMBER: P895344

CATALOG NUMBER: 8TMB-SC3-ASMF-UNV-CC93-LOW-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4
2.5°	953.2	956.0	947.0	952.7	951.7	952.7	941.3	950.8	936.1
5°	960.3	961.7	952.7	956.0	952.7	944.6	936.1	932.7	933.7
7.5°	965.0	972.6	950.3	951.3	945.6	937.0	920.9	923.7	921.8
10°	976.4	967.9	950.3	946.0	935.1	926.1	907.6	909.0	910.0
12.5°	969.3	967.4	949.8	934.2	923.3	915.7	896.7	891.9	894.3
15°	974.5	966.4	940.3	928.0	911.4	898.1	879.1	875.8	876.3
17.5°	969.8	963.1	930.8	913.8	890.5	882.4	864.4	858.7	855.8
20°	955.5	952.2	923.7	894.3	873.4	857.7	835.9	832.6	835.0
22.5°	946.0	938.0	909.5	880.1	849.7	835.9	814.1	813.6	814.1
25°	941.3	930.8	890.0	859.2	825.5	813.1	794.1	787.0	793.2
27.5°	927.0	917.6	869.6	835.9	798.4	781.8	766.1	764.7	765.7
30°	908.1	889.5	851.1	809.8	773.7	756.6	743.8	734.3	743.3
32.5°	881.0	870.6	826.9	781.8	741.9	730.1	717.2	716.3	716.3
35°	860.1	852.5	804.1	757.1	714.4	698.3	690.7	687.3	690.7
37.5°	835.9	824.5	779.9	727.2	683.5	669.8	662.2	659.3	661.7
40°	815.0	794.1	751.4	696.4	649.8	637.5	629.4	632.3	634.6
42.5°	784.2	772.3	717.7	665.0	620.9	607.6	600.9	603.3	609.0
45°	753.8	742.9	689.7	632.3	583.4	576.3	575.8	574.4	581.5
47.5°	726.3	710.6	658.9	600.0	552.1	544.0	544.9	549.7	555.8
50°	694.5	675.9	624.7	565.3	517.4	512.2	516.0	519.3	527.4
52.5°	662.7	647.9	593.3	532.6	482.3	478.5	483.7	494.6	499.4
55°	638.0	611.4	562.5	494.1	444.8	445.2	455.7	461.9	472.3
57.5°	598.6	578.6	527.4	460.0	409.6	413.0	427.2	437.7	444.3
60°	570.6	545.4	493.2	423.4	372.6	377.8	394.0	409.6	421.0
62.5°	534.5	512.7	457.6	387.3	338.4	346.0	364.1	382.6	390.7
65°	505.1	480.4	422.5	351.3	302.8	311.9	334.2	355.1	368.4
67.5°	479.9	454.3	391.1	318.0	266.8	280.1	306.2	326.6	337.0
70°	450.0	420.1	355.5	281.0	229.3	244.9	278.2	301.9	313.8
72.5°	418.2	394.0	324.7	246.8	194.6	213.6	250.2	274.8	286.2
75°	393.5	366.5	298.6	212.7	159.5	182.3	221.7	249.7	261.1
77.5°	368.4	343.7	269.1	181.3	128.2	153.8	196.5	227.4	239.2
80°	346.0	317.6	244.5	155.7	95.4	125.8	172.8	203.2	216.9
82.5°	321.4	296.7	223.1	128.6	67.9	100.2	149.5	182.8	194.1
85°	299.5	273.9	203.2	107.3	41.8	77.4	128.2	162.3	176.1
87.5°	279.6	258.2	184.7	91.1	20.9	58.9	107.8	142.4	158.1
90°	261.5	237.3	169.0	76.4	3.8	42.7	91.1	125.3	137.2
92.5°	250.2	221.2	156.2	66.9	2.4	30.4	75.9	109.7	123.4
95°	233.1	207.4	142.9	59.8	2.4	20.4	61.2	94.0	105.9
97.5°	218.4	194.6	133.4	55.5	1.9	13.8	50.3	78.8	91.1
100°	207.0	184.7	124.8	51.7	2.4	10.0	39.9	66.9	77.8
102.5°	194.1	173.7	118.2	49.4	2.4	7.1	31.3	56.5	66.5
105°	182.8	164.7	112.0	47.0	2.4	6.2	25.2	46.5	55.5
107.5°	174.2	155.2	106.8	45.6	2.4	6.2	19.9	38.0	45.6
110°	165.7	147.6	101.6	44.1	2.4	5.7	15.7	31.3	38.0

TEST NUMBER: P895344

CATALOG NUMBER: 8TMB-SC3-ASMF-UNV-CC93-LOW-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	160.0	140.5	96.8	42.7	2.8	5.7	12.8	26.1	31.3
115°	150.0	134.3	92.6	42.2	2.8	5.2	11.9	21.4	26.6
117.5°	142.9	128.6	88.3	40.8	2.8	5.2	11.4	17.6	21.4
120°	137.7	122.0	84.5	39.4	2.8	4.7	10.4	15.7	18.0
122.5°	131.0	115.8	81.2	38.4	2.8	4.7	10.0	14.7	16.1
125°	122.0	110.1	77.4	36.6	3.3	4.7	9.5	13.8	15.2
127.5°	116.3	104.9	74.5	34.2	3.3	4.3	9.0	12.8	14.2
130°	111.5	99.2	71.2	31.8	3.3	4.3	8.5	11.9	13.3
132.5°	104.4	93.5	66.5	29.9	3.3	3.8	7.6	10.9	12.3
135°	97.8	88.8	61.7	28.0	3.3	3.8	7.1	10.4	11.4
137.5°	93.5	84.0	57.4	26.1	3.3	3.3	6.6	9.5	10.4
140°	86.4	78.8	52.7	24.2	3.3	3.3	6.2	9.0	9.5
142.5°	81.2	73.6	48.4	22.3	3.3	3.3	5.7	8.1	9.0
145°	75.0	68.4	43.7	20.4	3.3	2.8	5.2	7.6	8.1
147.5°	69.3	62.2	39.9	19.0	3.3	2.8	4.7	6.6	7.1
150°	63.6	56.0	36.1	17.6	3.3	2.8	4.3	5.7	6.6
152.5°	57.4	48.4	32.3	16.1	3.3	2.8	3.8	5.2	5.7
155°	51.3	42.2	29.0	14.7	3.8	2.8	3.3	4.3	5.2
157.5°	46.0	36.6	25.6	13.3	3.8	2.4	3.3	3.8	4.3
160°	39.9	31.3	22.8	11.9	3.8	2.4	2.8	3.3	3.8
162.5°	35.1	26.1	19.9	10.9	3.8	2.4	2.8	2.8	3.3
165°	29.9	21.8	16.6	10.0	3.8	2.4	2.4	2.4	2.8
167.5°	24.2	17.1	13.8	9.0	3.8	2.4	2.4	1.9	2.4
170°	18.0	12.8	11.4	8.1	3.8	2.4	1.9	1.4	1.9
172.5°	8.1	10.0	9.0	7.1	4.3	2.4	1.9	1.4	0.9
175°	4.3	7.1	7.1	6.2	4.3	2.4	1.9	1.4	0.5
177.5°	3.3	4.3	5.2	5.2	4.3	2.8	1.9	0.9	0.5
180°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8

(END OF REPORT)