

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: P895335

Luminaire Tested: 8TMB-SC3-ASMF-UNV-CC83-LOW-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895335
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-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 80CRI, 4000K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

Summary

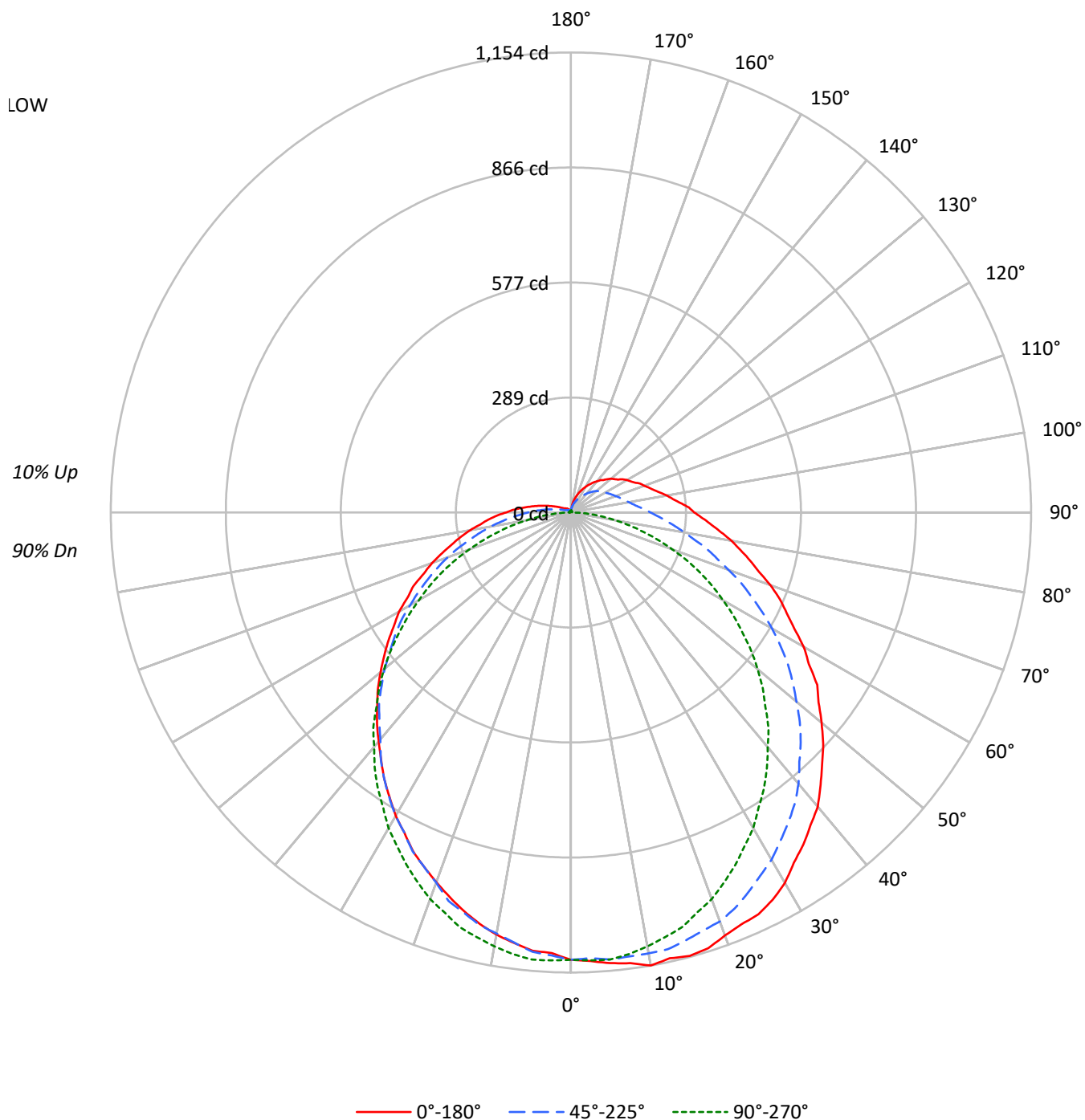
Lumens per Lamp: N/A
Luminaire Lumens: 3857.0 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.21 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

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°	5697	5697	5697	5697	5697
5°	5777	5572	5512	5474	5617
10°	5934	5460	5262	5215	5530
15°	6030	5350	5029	5001	5422
20°	6068	5243	4762	4745	5303
25°	6188	5079	4482	4532	5214
30°	6236	4921	4216	4301	5105
35°	6233	4748	3937	4078	5005
40°	6302	4569	3650	3827	4907
45°	6299	4356	3367	3637	4859
50°	6365	4137	3095	3417	4834
55°	6529	3947	2783	3198	4834
60°	6667	3710	2464	2964	4920
65°	6939	3453	2141	2732	5061
70°	7571	3208	1754	2510	5279
75°	8620	3032	1342	2251	5719
80°	10983	2864	898	2025	6884
85°	17490	2838	451	1790	10285

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 100205 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	2.8
10°-20°	305.1	7.9
20°-30°	460.0	11.9
30°-40°	552.1	14.3
40°-50°	574.9	14.9
50°-60°	533.0	13.8
60°-70°	438.9	11.4
70°-80°	316.6	8.2
80°-90°	201.0	5.2
90°-100°	123.9	3.2
100°-110°	82.6	2.1
110°-120°	58.8	1.5
120°-130°	43.1	1.1
130°-140°	29.6	0.8
140°-150°	18.0	0.5
150°-160°	8.9	0.2
160°-170°	3.3	0.1
170°-180°	0.5	0.0
0°-30°	871.5	22.6
0°-40°	1423.7	36.9
0°-60°	2531.6	65.6
0°-90°	3488.1	90.4
90°-120°	265.4	6.9
90°-150°	356.1	9.2
90°-180°	369.0	9.6
0°-180°	3857.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1122	1122	1122	1122	1122	
5°	1135	1126	1126	1106	1103	109
15°	1152	1111	1077	1039	1036	325
25°	1112	1052	975	938	937	512
35°	1016	950	844	816	816	637
45°	891	815	689	680	687	689
55°	754	665	526	538	558	670
65°	597	499	358	395	435	594
75°	465	353	188	262	308	493
85°	354	240	49	151	208	300
90°	309	200	4	108	162	170
95°	275	169	3	72	125	219
105°	216	132	3	30	66	231
115°	177	109	3	14	31	177
125°	144	91	4	11	18	131
135°	116	73	4	8	14	91
145°	89	52	4	6	10	56
155°	61	34	4	4	6	29
165°	35	20	4	3	3	10
175°	5	8	5	2	1	1
180°	3	3	3	3	3	

TEST NUMBER: P895335

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8
2.5°	1126.3	1129.7	1119.0	1125.8	1124.6	1125.8	1112.3	1123.5	1106.1
5°	1134.7	1136.4	1125.8	1129.7	1125.8	1116.2	1106.1	1102.2	1103.3
7.5°	1140.3	1149.3	1123.0	1124.1	1117.3	1107.3	1088.2	1091.5	1089.3
10°	1153.8	1143.7	1123.0	1117.9	1105.0	1094.4	1072.5	1074.2	1075.3
12.5°	1145.4	1143.2	1122.4	1103.9	1091.0	1082.0	1059.6	1054.0	1056.8
15°	1151.6	1142.0	1111.2	1096.6	1077.0	1061.3	1038.8	1034.9	1035.5
17.5°	1146.0	1138.1	1100.0	1079.8	1052.3	1042.7	1021.4	1014.7	1011.3
20°	1129.1	1125.2	1091.5	1056.8	1032.1	1013.6	987.8	983.9	986.7
22.5°	1117.9	1108.4	1074.7	1039.9	1004.0	987.8	962.0	961.4	962.0
25°	1112.3	1100.0	1051.7	1015.3	975.4	960.9	938.4	930.0	937.3
27.5°	1095.5	1084.3	1027.6	987.8	943.5	923.8	905.3	903.6	904.8
30°	1073.0	1051.2	1005.7	956.9	914.3	894.1	879.0	867.7	878.4
32.5°	1041.1	1028.7	977.1	923.8	876.7	862.7	847.5	846.4	846.4
35°	1016.4	1007.4	950.2	894.7	844.2	825.1	816.1	812.2	816.1
37.5°	987.8	974.3	921.6	859.3	807.7	791.5	782.5	779.1	781.9
40°	963.1	938.4	887.9	822.9	767.9	753.3	743.8	747.1	749.9
42.5°	926.6	912.6	848.1	785.8	733.7	718.0	710.1	712.9	719.7
45°	890.7	877.8	815.0	747.1	689.4	681.0	680.4	678.7	687.1
47.5°	858.2	839.7	778.6	709.0	652.3	642.8	643.9	649.5	656.8
50°	820.6	798.7	738.2	668.1	611.4	605.2	609.7	613.6	623.2
52.5°	783.0	765.7	701.1	629.4	569.9	565.4	571.6	584.5	590.1
55°	753.9	722.5	664.7	583.9	525.6	526.1	538.5	545.8	558.1
57.5°	707.3	683.8	623.2	543.5	484.1	488.0	504.8	517.2	525.0
60°	674.2	644.5	582.8	500.3	440.3	446.5	465.6	484.1	497.5
62.5°	631.6	605.8	540.7	457.7	399.9	408.9	430.2	452.1	461.6
65°	596.8	567.6	499.2	415.1	357.9	368.5	394.9	419.6	435.3
67.5°	567.1	536.8	462.2	375.8	315.2	330.9	361.8	385.9	398.3
70°	531.8	496.4	420.1	332.1	270.9	289.4	328.7	356.7	370.8
72.5°	494.2	465.6	383.7	291.7	230.0	252.4	295.6	324.8	338.2
75°	465.0	433.0	352.8	251.3	188.5	215.4	261.9	295.0	308.5
77.5°	435.3	406.1	318.0	214.3	151.4	181.7	232.2	268.7	282.7
80°	408.9	375.3	288.9	184.0	112.7	148.6	204.2	240.1	256.3
82.5°	379.7	350.6	263.6	152.0	80.2	118.4	176.7	216.0	229.4
85°	353.9	323.7	240.1	126.8	49.4	91.4	151.4	191.8	208.1
87.5°	330.4	305.1	218.2	107.7	24.7	69.6	127.3	168.3	186.8
90°	309.1	280.5	199.7	90.3	4.5	50.5	107.7	148.1	162.1
92.5°	295.6	261.4	184.5	79.1	2.8	35.9	89.7	129.6	145.8
95°	275.4	245.1	168.8	70.7	2.8	24.1	72.4	111.1	125.1
97.5°	258.0	230.0	157.6	65.6	2.2	16.3	59.5	93.1	107.7
100°	244.6	218.2	147.5	61.1	2.8	11.8	47.1	79.1	92.0
102.5°	229.4	205.3	139.7	58.3	2.8	8.4	37.0	66.7	78.5
105°	216.0	194.6	132.4	55.5	2.8	7.3	29.7	55.0	65.6
107.5°	205.9	183.4	126.2	53.8	2.8	7.3	23.6	44.9	53.8
110°	195.8	174.4	120.0	52.2	2.8	6.7	18.5	37.0	44.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	189.0	166.0	114.4	50.5	3.4	6.7	15.1	30.9	37.0
115°	177.3	158.7	109.4	49.9	3.4	6.2	14.0	25.2	31.4
117.5°	168.8	152.0	104.3	48.2	3.4	6.2	13.5	20.8	25.2
120°	162.7	144.2	99.8	46.6	3.4	5.6	12.3	18.5	21.3
122.5°	154.8	136.9	95.9	45.4	3.4	5.6	11.8	17.4	19.1
125°	144.2	130.1	91.4	43.2	3.9	5.6	11.2	16.3	17.9
127.5°	137.4	124.0	88.1	40.4	3.9	5.0	10.7	15.1	16.8
130°	131.8	117.2	84.1	37.6	3.9	5.0	10.1	14.0	15.7
132.5°	123.4	110.5	78.5	35.3	3.9	4.5	9.0	12.9	14.6
135°	115.5	104.9	72.9	33.1	3.9	4.5	8.4	12.3	13.5
137.5°	110.5	99.3	67.9	30.9	3.9	3.9	7.9	11.2	12.3
140°	102.1	93.1	62.3	28.6	3.9	3.9	7.3	10.7	11.2
142.5°	95.9	86.9	57.2	26.4	3.9	3.9	6.7	9.5	10.7
145°	88.6	80.8	51.6	24.1	3.9	3.4	6.2	9.0	9.5
147.5°	81.9	73.5	47.1	22.4	3.9	3.4	5.6	7.9	8.4
150°	75.2	66.2	42.6	20.8	3.9	3.4	5.0	6.7	7.9
152.5°	67.9	57.2	38.1	19.1	3.9	3.4	4.5	6.2	6.7
155°	60.6	49.9	34.2	17.4	4.5	3.4	3.9	5.0	6.2
157.5°	54.4	43.2	30.3	15.7	4.5	2.8	3.9	4.5	5.0
160°	47.1	37.0	26.9	14.0	4.5	2.8	3.4	3.9	4.5
162.5°	41.5	30.9	23.6	12.9	4.5	2.8	3.4	3.4	3.9
165°	35.3	25.8	19.6	11.8	4.5	2.8	2.8	2.8	3.4
167.5°	28.6	20.2	16.3	10.7	4.5	2.8	2.8	2.2	2.8
170°	21.3	15.1	13.5	9.5	4.5	2.8	2.2	1.7	2.2
172.5°	9.5	11.8	10.7	8.4	5.0	2.8	2.2	1.7	1.1
175°	5.0	8.4	8.4	7.3	5.0	2.8	2.2	1.7	0.6
177.5°	3.9	5.0	6.2	6.2	5.0	3.4	2.2	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)