

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: P895341

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895341
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-HI-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 90CRI, 4000K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

Summary

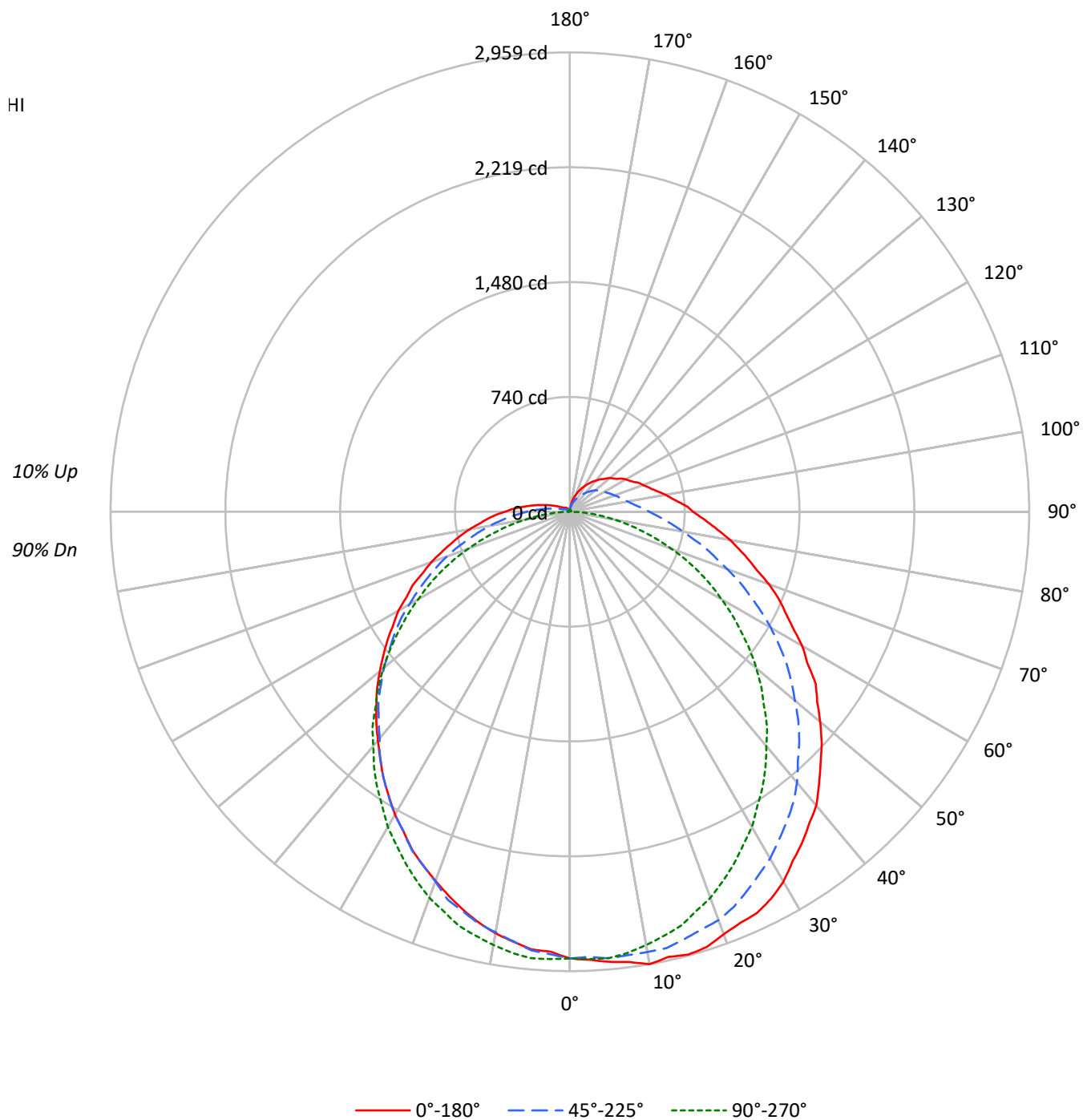
Lumens per Lamp: N/A
Luminaire Lumens: 9891.0 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.21 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

Input Watts (W): 101.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.39961257980444
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	90	90
1	105	99	95	90	101	96	92	88	90	87	83	85	82	79	79	77	75	72	72	72
2	95	86	79	72	91	83	76	71	78	72	68	73	69	65	69	65	62	59	59	59
3	86	75	66	60	83	73	65	58	68	62	56	64	59	54	60	56	52	49	49	49
4	79	66	57	50	76	64	56	49	61	53	48	57	51	46	54	49	44	42	42	42
5	72	59	50	43	69	57	49	42	54	47	41	51	45	40	48	43	38	36	36	36
6	67	53	44	37	64	52	43	37	49	41	36	46	40	35	44	38	34	31	31	31
7	62	48	39	33	59	47	38	32	44	37	32	42	36	31	40	34	30	28	28	28
8	57	44	35	29	55	43	35	29	41	33	28	39	32	27	37	31	27	25	25	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22	22	22
10	50	37	29	24	49	36	29	23	34	28	23	33	27	22	31	26	22	20	20	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14611	14611	14611	14611	14611
5°	14815	14288	14136	14039	14405
10°	15217	14002	13494	13373	14181
15°	15462	13718	12895	12825	13903
20°	15561	13446	12213	12168	13597
25°	15868	13025	11495	11622	13371
30°	15992	12620	10812	11029	13092
35°	15984	12176	10095	10458	12835
40°	16162	11716	9360	9814	12585
45°	16153	11170	8634	9325	12461
50°	16322	10609	7937	8763	12395
55°	16744	10122	7137	8200	12395
60°	17098	9514	6319	7601	12617
65°	17795	8855	5489	7005	12978
70°	19413	8227	4500	6436	13536
75°	22107	7776	3441	5773	14666
80°	28166	7345	2305	5191	17658
85°	44860	7277	1157	4591	26376

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 256948 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.0	2.8
10°-20°	782.3	7.9
20°-30°	1179.7	11.9
30°-40°	1415.9	14.3
40°-50°	1474.4	14.9
50°-60°	1366.7	13.8
60°-70°	1125.6	11.4
70°-80°	811.9	8.2
80°-90°	515.4	5.2
90°-100°	317.8	3.2
100°-110°	211.9	2.1
110°-120°	150.9	1.5
120°-130°	110.5	1.1
130°-140°	76.0	0.8
140°-150°	46.3	0.5
150°-160°	22.9	0.2
160°-170°	8.4	0.1
170°-180°	1.4	0.0
0°-30°	2235.0	22.6
0°-40°	3650.9	36.9
0°-60°	6492.0	65.6
0°-90°	8944.9	90.4
90°-120°	680.5	6.9
90°-150°	913.4	9.2
90°-180°	946.0	9.6
0°-180°	9891.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2877	2877	2877	2877	2877	
5°	2910	2887	2887	2837	2829	279
15°	2953	2850	2762	2664	2655	833
25°	2852	2697	2501	2406	2404	1312
35°	2606	2437	2165	2093	2093	1633
45°	2284	2090	1768	1745	1762	1767
55°	1933	1704	1348	1381	1431	1717
65°	1530	1280	918	1013	1116	1524
75°	1192	905	483	672	791	1264
85°	908	616	127	388	534	770
90°	793	512	12	276	416	437
95°	706	433	7	186	321	561
105°	554	340	7	76	168	591
115°	454	280	9	36	81	455
125°	370	234	10	29	46	336
135°	296	187	10	22	34	232
145°	227	132	10	16	24	144
155°	155	88	12	10	16	73
165°	91	50	12	7	9	26
175°	13	22	13	6	1	2
180°	9	9	9	9	9	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2876.9	2876.9	2876.9	2876.9	2876.9	2876.9	2876.9	2876.9	2876.9
2.5°	2888.4	2897.0	2869.7	2886.9	2884.1	2886.9	2852.4	2881.2	2836.6
5°	2910.0	2914.3	2886.9	2897.0	2886.9	2862.5	2836.6	2826.5	2829.4
7.5°	2924.3	2947.4	2879.7	2882.6	2865.4	2839.5	2790.6	2799.2	2793.4
10°	2958.9	2933.0	2879.7	2866.8	2833.7	2806.4	2750.3	2754.6	2757.5
12.5°	2937.3	2931.5	2878.3	2830.8	2797.8	2774.7	2717.2	2702.8	2710.0
15°	2953.1	2928.7	2849.5	2812.1	2761.8	2721.5	2664.0	2653.9	2655.4
17.5°	2938.7	2918.6	2820.8	2769.0	2698.5	2674.1	2619.4	2602.1	2593.5
20°	2895.6	2885.5	2799.2	2710.0	2646.7	2599.3	2533.1	2523.0	2530.2
22.5°	2866.8	2842.3	2756.0	2666.9	2574.8	2533.1	2466.9	2465.5	2466.9
25°	2852.4	2820.8	2697.1	2603.6	2501.4	2464.0	2406.5	2384.9	2403.6
27.5°	2809.3	2780.5	2635.2	2533.1	2419.4	2369.1	2321.6	2317.3	2320.2
30°	2751.7	2695.6	2579.1	2454.0	2344.6	2292.9	2254.0	2225.3	2252.6
32.5°	2669.7	2638.1	2505.8	2369.1	2248.3	2212.3	2173.5	2170.6	2170.6
35°	2606.4	2583.4	2436.7	2294.3	2164.8	2115.9	2092.9	2082.9	2092.9
37.5°	2533.1	2498.6	2363.3	2203.7	2071.3	2029.6	2006.6	1998.0	2005.2
40°	2469.8	2406.5	2277.0	2110.2	1969.2	1931.8	1907.4	1916.0	1923.2
42.5°	2376.3	2340.3	2174.9	2015.2	1881.5	1841.2	1821.1	1828.3	1845.5
45°	2284.2	2251.2	2090.0	1916.0	1767.8	1746.3	1744.8	1740.5	1762.1
47.5°	2200.8	2153.3	1996.5	1818.2	1672.9	1648.4	1651.3	1665.7	1684.4
50°	2104.4	2048.3	1893.0	1713.2	1567.9	1552.1	1563.6	1573.6	1598.1
52.5°	2008.1	1963.5	1798.0	1613.9	1461.5	1449.9	1465.8	1498.8	1513.2
55°	1933.3	1852.7	1704.5	1497.4	1347.8	1349.3	1380.9	1399.6	1431.2
57.5°	1813.9	1753.5	1598.1	1393.8	1241.4	1251.4	1294.6	1326.2	1346.4
60°	1729.0	1652.8	1494.5	1283.1	1129.2	1145.0	1193.9	1241.4	1275.9
62.5°	1619.7	1553.5	1386.7	1173.8	1025.6	1048.6	1103.3	1159.4	1183.8
65°	1530.5	1455.7	1280.2	1064.4	917.7	945.1	1012.7	1075.9	1116.2
67.5°	1454.3	1376.6	1185.3	963.8	808.4	848.7	927.8	989.6	1021.3
70°	1363.6	1273.0	1077.4	851.6	694.8	742.2	842.9	914.8	950.8
72.5°	1267.3	1193.9	983.9	748.0	589.8	647.3	758.1	832.9	867.4
75°	1192.5	1110.5	904.8	644.4	483.3	552.4	671.7	756.6	791.1
77.5°	1116.2	1041.4	815.6	549.5	388.4	466.1	595.5	689.0	725.0
80°	1048.6	962.3	740.8	471.8	289.1	381.2	523.6	615.7	657.4
82.5°	973.8	899.0	676.1	389.8	205.7	303.5	453.1	553.8	588.3
85°	907.7	830.0	615.7	325.1	126.6	234.5	388.4	491.9	533.7
87.5°	847.2	782.5	559.6	276.2	63.3	178.4	326.5	431.5	479.0
90°	792.6	719.2	512.1	231.6	11.5	129.5	276.2	379.7	415.7
92.5°	758.1	670.3	473.2	202.8	7.2	92.1	230.1	332.3	374.0
95°	706.3	628.6	433.0	181.2	7.2	61.9	185.6	284.8	320.8
97.5°	661.7	589.8	404.2	168.3	5.8	41.7	152.5	238.8	276.2
100°	627.2	559.6	378.3	156.8	7.2	30.2	120.8	202.8	235.9
102.5°	588.3	526.5	358.2	149.6	7.2	21.6	94.9	171.2	201.4
105°	553.8	499.1	339.5	142.4	7.2	18.7	76.2	141.0	168.3
107.5°	527.9	470.4	323.6	138.1	7.2	18.7	60.4	115.1	138.1
110°	502.0	447.4	307.8	133.8	7.2	17.3	47.5	94.9	115.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	484.8	425.8	293.4	129.5	8.6	17.3	38.8	79.1	94.9
115°	454.5	407.1	280.5	128.0	8.6	15.8	36.0	64.7	80.6
117.5°	433.0	389.8	267.5	123.7	8.6	15.8	34.5	53.2	64.7
120°	417.1	369.7	256.0	119.4	8.6	14.4	31.6	47.5	54.7
122.5°	397.0	351.0	246.0	116.5	8.6	14.4	30.2	44.6	48.9
125°	369.7	333.7	234.5	110.8	10.1	14.4	28.8	41.7	46.0
127.5°	352.4	317.9	225.8	103.6	10.1	12.9	27.3	38.8	43.2
130°	338.0	300.6	215.8	96.4	10.1	12.9	25.9	36.0	40.3
132.5°	316.5	283.4	201.4	90.6	10.1	11.5	23.0	33.1	37.4
135°	296.3	269.0	187.0	84.9	10.1	11.5	21.6	31.6	34.5
137.5°	283.4	254.6	174.1	79.1	10.1	10.1	20.1	28.8	31.6
140°	261.8	238.8	159.7	73.4	10.1	10.1	18.7	27.3	28.8
142.5°	246.0	223.0	146.7	67.6	10.1	10.1	17.3	24.5	27.3
145°	227.3	207.1	132.3	61.9	10.1	8.6	15.8	23.0	24.5
147.5°	210.0	188.4	120.8	57.5	10.1	8.6	14.4	20.1	21.6
150°	192.8	169.7	109.3	53.2	10.1	8.6	12.9	17.3	20.1
152.5°	174.1	146.7	97.8	48.9	10.1	8.6	11.5	15.8	17.3
155°	155.4	128.0	87.7	44.6	11.5	8.6	10.1	12.9	15.8
157.5°	139.5	110.8	77.7	40.3	11.5	7.2	10.1	11.5	12.9
160°	120.8	94.9	69.0	36.0	11.5	7.2	8.6	10.1	11.5
162.5°	106.4	79.1	60.4	33.1	11.5	7.2	8.6	8.6	10.1
165°	90.6	66.2	50.3	30.2	11.5	7.2	7.2	7.2	8.6
167.5°	73.4	51.8	41.7	27.3	11.5	7.2	7.2	5.8	7.2
170°	54.7	38.8	34.5	24.5	11.5	7.2	5.8	4.3	5.8
172.5°	24.5	30.2	27.3	21.6	12.9	7.2	5.8	4.3	2.9
175°	12.9	21.6	21.6	18.7	12.9	7.2	5.8	4.3	1.4
177.5°	10.1	12.9	15.8	15.8	12.9	8.6	5.8	2.9	1.4
180°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6

(END OF REPORT)