

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: P895340

Luminaire Tested: 8TMB-SC3-ASMF-UNV-CC93-HI-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895340
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-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 90CRI, 3500K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

Summary

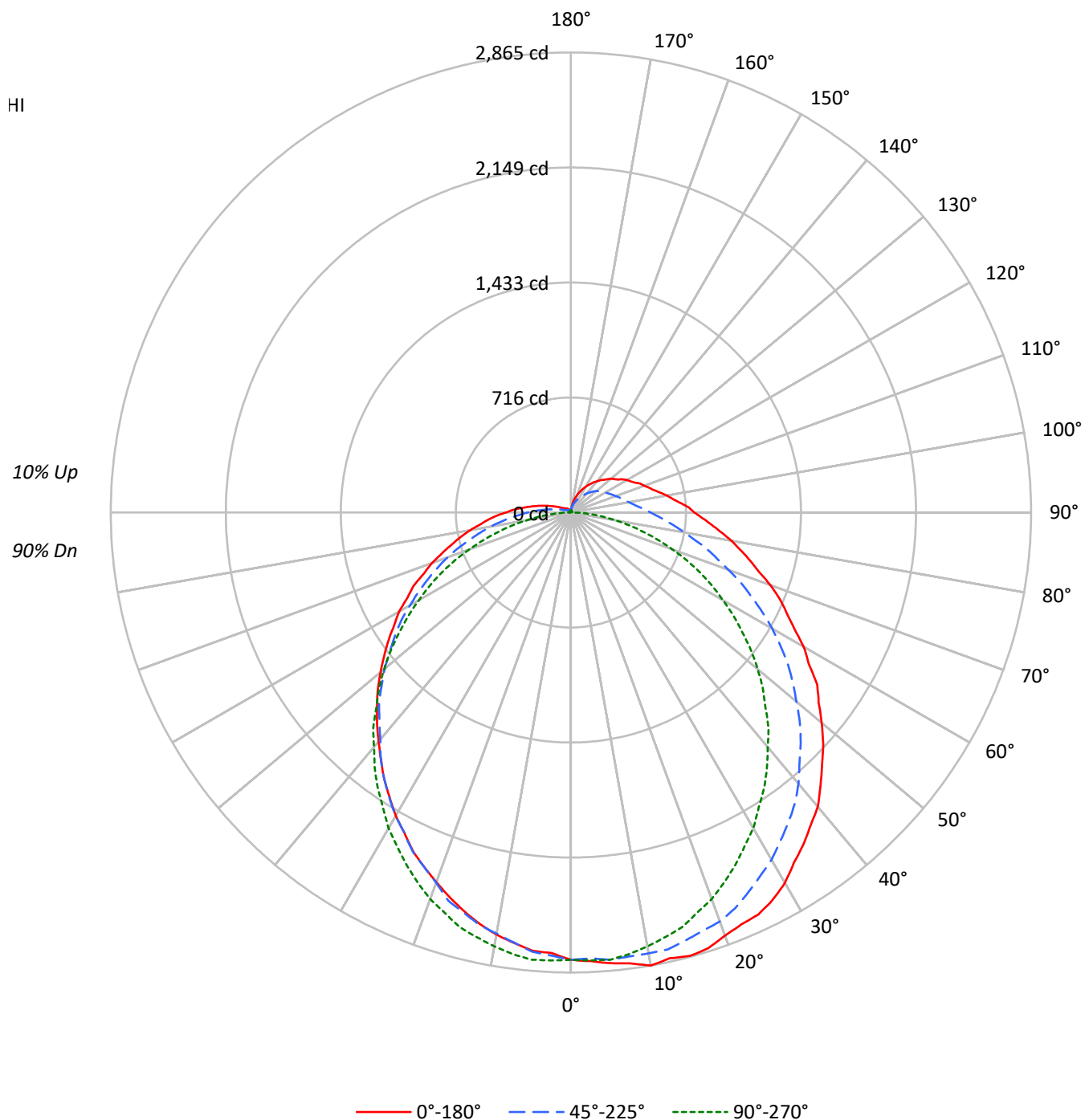
Lumens per Lamp: N/A
Luminaire Lumens: 9577.0 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.21 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P895340

CATALOG NUMBER: 8TMB-SC3-ASMF-UNV-CC93-HI-3500K

Luminous Intensity Polar Plot



TEST NUMBER: P895340

CATALOG NUMBER: 8TMB-SC3-ASMF-UNV-CC93-HI-3500K

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°	14147	14147	14147	14147	14147
5°	14345	13835	13687	13593	13948
10°	14734	13557	13066	12948	13731
15°	14971	13283	12486	12418	13462
20°	15067	13019	11825	11782	13166
25°	15365	12612	11130	11253	12947
30°	15485	12219	10469	10679	12676
35°	15477	11790	9775	10126	12428
40°	15649	11344	9062	9502	12185
45°	15640	10816	8360	9029	12065
50°	15804	10273	7685	8485	12002
55°	16212	9801	6911	7940	12002
60°	16555	9212	6118	7359	12217
65°	17229	8574	5315	6782	12566
70°	18796	7966	4356	6232	13106
75°	21405	7529	3332	5590	14201
80°	27272	7112	2231	5027	17097
85°	43432	7046	1120	4444	25536

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 248779 cd/sqm

TEST NUMBER: P895340

CATALOG NUMBER: 8TMB-SC3-ASMF-UNV-CC93-HI-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.3	2.8
10°-20°	757.5	7.9
20°-30°	1142.2	11.9
30°-40°	1371.0	14.3
40°-50°	1427.6	14.9
50°-60°	1323.3	13.8
60°-70°	1089.8	11.4
70°-80°	786.1	8.2
80°-90°	499.1	5.2
90°-100°	307.7	3.2
100°-110°	205.2	2.1
110°-120°	146.1	1.5
120°-130°	107.0	1.1
130°-140°	73.6	0.8
140°-150°	44.8	0.5
150°-160°	22.2	0.2
160°-170°	8.1	0.1
170°-180°	1.4	0.0
0°-30°	2164.0	22.6
0°-40°	3535.0	36.9
0°-60°	6285.9	65.6
0°-90°	8660.9	90.4
90°-120°	658.9	6.9
90°-150°	884.3	9.2
90°-180°	916.0	9.6
0°-180°	9577.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2786	2786	2786	2786	2786	
5°	2818	2795	2795	2746	2740	270
15°	2859	2759	2674	2579	2571	806
25°	2762	2611	2422	2330	2327	1270
35°	2524	2359	2096	2026	2026	1581
45°	2212	2024	1712	1689	1706	1711
55°	1872	1650	1305	1337	1386	1663
65°	1482	1240	889	980	1081	1476
75°	1155	876	468	650	766	1223
85°	879	596	123	376	517	746
90°	767	496	11	267	402	423
95°	684	419	7	180	311	543
105°	536	329	7	74	163	573
115°	440	272	8	35	78	441
125°	358	227	10	28	45	326
135°	287	181	10	21	33	225
145°	220	128	10	15	24	139
155°	150	85	11	10	15	71
165°	88	49	11	7	8	25
175°	12	21	12	6	1	2
180°	8	8	8	8	8	

TEST NUMBER: P895340

CATALOG NUMBER: 8TMB-SC3-ASMF-UNV-CC93-HI-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2785.5	2785.5	2785.5	2785.5	2785.5	2785.5	2785.5	2785.5	2785.5
2.5°	2796.7	2805.0	2778.6	2795.3	2792.5	2795.3	2761.9	2789.7	2746.5
5°	2817.6	2821.8	2795.3	2805.0	2795.3	2771.6	2746.5	2736.8	2739.6
7.5°	2831.5	2853.8	2788.3	2791.1	2774.4	2749.3	2702.0	2710.3	2704.8
10°	2864.9	2839.9	2788.3	2775.8	2743.8	2717.3	2663.0	2667.2	2669.9
12.5°	2844.0	2838.5	2786.9	2741.0	2708.9	2686.7	2630.9	2617.0	2624.0
15°	2859.4	2835.7	2759.1	2722.9	2674.1	2635.1	2579.4	2569.7	2571.1
17.5°	2845.4	2825.9	2731.2	2681.1	2612.8	2589.2	2536.2	2519.5	2511.2
20°	2803.6	2793.9	2710.3	2624.0	2562.7	2516.7	2452.7	2442.9	2449.9
22.5°	2775.8	2752.1	2668.5	2582.2	2493.1	2452.7	2388.6	2387.2	2388.6
25°	2761.9	2731.2	2611.4	2520.9	2422.0	2385.8	2330.1	2309.2	2327.3
27.5°	2720.1	2692.2	2551.6	2452.7	2342.6	2293.9	2247.9	2243.8	2246.5
30°	2664.4	2610.1	2497.2	2376.1	2270.2	2220.1	2182.5	2154.6	2181.1
32.5°	2585.0	2554.3	2426.2	2293.9	2176.9	2142.1	2104.5	2101.7	2101.7
35°	2523.7	2501.4	2359.4	2221.5	2096.1	2048.8	2026.5	2016.7	2026.5
37.5°	2452.7	2419.2	2288.3	2133.7	2005.6	1965.2	1942.9	1934.6	1941.5
40°	2391.4	2330.1	2204.8	2043.2	1906.7	1870.5	1846.8	1855.2	1862.1
42.5°	2300.9	2266.0	2105.9	1951.3	1821.7	1782.7	1763.2	1770.2	1786.9
45°	2211.7	2179.7	2023.7	1855.2	1711.7	1690.8	1689.4	1685.3	1706.1
47.5°	2130.9	2085.0	1933.2	1760.5	1619.8	1596.1	1598.9	1612.8	1630.9
50°	2037.6	1983.3	1832.9	1658.8	1518.1	1502.8	1513.9	1523.7	1547.4
52.5°	1944.3	1901.1	1741.0	1562.7	1415.1	1403.9	1419.2	1451.3	1465.2
55°	1871.9	1793.9	1650.4	1449.9	1305.0	1306.4	1337.1	1355.2	1385.8
57.5°	1756.3	1697.8	1547.4	1349.6	1202.0	1211.7	1253.5	1284.1	1303.6
60°	1674.1	1600.3	1447.1	1242.4	1093.3	1108.6	1156.0	1202.0	1235.4
62.5°	1568.3	1504.2	1342.6	1136.5	993.0	1015.3	1068.3	1122.6	1146.3
65°	1481.9	1409.5	1239.6	1030.7	888.6	915.1	980.5	1041.8	1080.8
67.5°	1408.1	1332.9	1147.6	933.2	782.7	821.7	898.3	958.2	988.9
70°	1320.3	1232.6	1043.2	824.5	672.7	718.7	816.2	885.8	920.6
72.5°	1227.0	1156.0	952.7	724.2	571.0	626.7	734.0	806.4	839.8
75°	1154.6	1075.2	876.1	624.0	468.0	534.8	650.4	732.6	766.0
77.5°	1080.8	1008.4	789.7	532.0	376.0	451.3	576.6	667.1	702.0
80°	1015.3	931.8	717.3	456.8	279.9	369.1	507.0	596.1	636.5
82.5°	942.9	870.5	654.6	377.4	199.2	293.9	438.7	536.2	569.6
85°	878.8	803.6	596.1	314.8	122.6	227.0	376.0	476.3	516.7
87.5°	820.3	757.7	541.8	267.4	61.3	172.7	316.2	417.8	463.8
90°	767.4	696.4	495.8	224.2	11.1	125.3	267.4	367.7	402.5
92.5°	734.0	649.0	458.2	196.4	7.0	89.1	222.8	321.7	362.1
95°	683.9	608.6	419.2	175.5	7.0	59.9	179.7	275.8	310.6
97.5°	640.7	571.0	391.4	163.0	5.6	40.4	147.6	231.2	267.4
100°	607.2	541.8	366.3	151.8	7.0	29.2	117.0	196.4	228.4
102.5°	569.6	509.8	346.8	144.8	7.0	20.9	91.9	165.7	195.0
105°	536.2	483.3	328.7	137.9	7.0	18.1	73.8	136.5	163.0
107.5°	511.1	455.4	313.4	133.7	7.0	18.1	58.5	111.4	133.7
110°	486.1	433.2	298.1	129.5	7.0	16.7	46.0	91.9	111.4

TEST NUMBER: P895340

CATALOG NUMBER: 8TMB-SC3-ASMF-UNV-CC93-HI-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	469.4	412.3	284.1	125.3	8.4	16.7	37.6	76.6	91.9
115°	440.1	394.2	271.6	124.0	8.4	15.3	34.8	62.7	78.0
117.5°	419.2	377.4	259.1	119.8	8.4	15.3	33.4	51.5	62.7
120°	403.9	357.9	247.9	115.6	8.4	13.9	30.6	46.0	52.9
122.5°	384.4	339.8	238.2	112.8	8.4	13.9	29.2	43.2	47.4
125°	357.9	323.1	227.0	107.2	9.7	13.9	27.9	40.4	44.6
127.5°	341.2	307.8	218.7	100.3	9.7	12.5	26.5	37.6	41.8
130°	327.3	291.1	208.9	93.3	9.7	12.5	25.1	34.8	39.0
132.5°	306.4	274.4	195.0	87.7	9.7	11.1	22.3	32.0	36.2
135°	286.9	260.4	181.1	82.2	9.7	11.1	20.9	30.6	33.4
137.5°	274.4	246.5	168.5	76.6	9.7	9.7	19.5	27.9	30.6
140°	253.5	231.2	154.6	71.0	9.7	9.7	18.1	26.5	27.9
142.5°	238.2	215.9	142.1	65.5	9.7	9.7	16.7	23.7	26.5
145°	220.1	200.6	128.1	59.9	9.7	8.4	15.3	22.3	23.7
147.5°	203.3	182.5	117.0	55.7	9.7	8.4	13.9	19.5	20.9
150°	186.6	164.3	105.9	51.5	9.7	8.4	12.5	16.7	19.5
152.5°	168.5	142.1	94.7	47.4	9.7	8.4	11.1	15.3	16.7
155°	150.4	124.0	85.0	43.2	11.1	8.4	9.7	12.5	15.3
157.5°	135.1	107.2	75.2	39.0	11.1	7.0	9.7	11.1	12.5
160°	117.0	91.9	66.9	34.8	11.1	7.0	8.4	9.7	11.1
162.5°	103.1	76.6	58.5	32.0	11.1	7.0	8.4	8.4	9.7
165°	87.7	64.1	48.7	29.2	11.1	7.0	7.0	7.0	8.4
167.5°	71.0	50.1	40.4	26.5	11.1	7.0	7.0	5.6	7.0
170°	52.9	37.6	33.4	23.7	11.1	7.0	5.6	4.2	5.6
172.5°	23.7	29.2	26.5	20.9	12.5	7.0	5.6	4.2	2.8
175°	12.5	20.9	20.9	18.1	12.5	7.0	5.6	4.2	1.4
177.5°	9.7	12.5	15.3	15.3	12.5	8.4	5.6	2.8	1.4
180°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4

(END OF REPORT)