

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: P895342

Luminaire Tested: 8TMB-SC3-ASMF-UNV-CC93-HI-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895342
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-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 90CRI, 5000K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

Summary

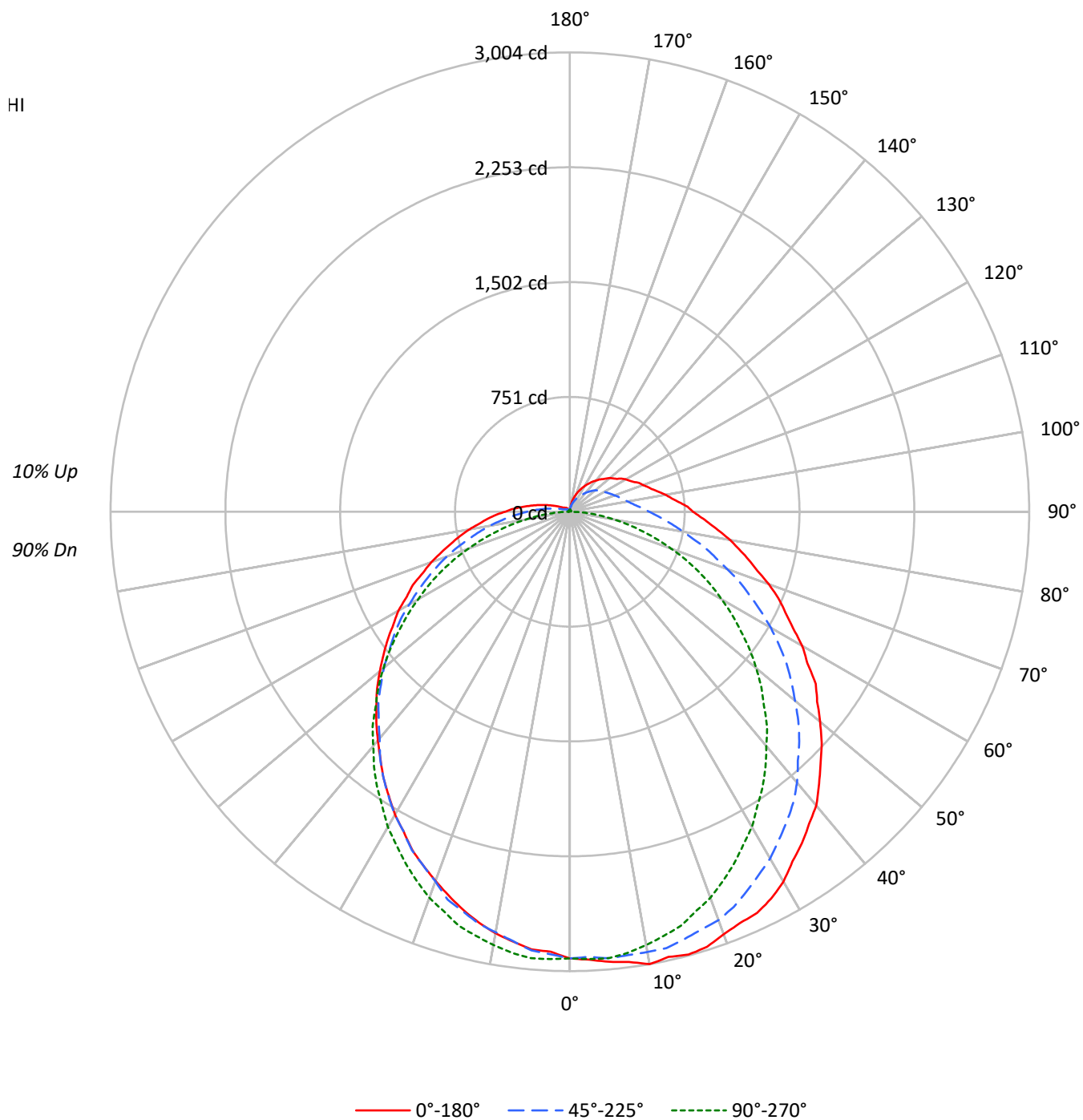
Lumens per Lamp: N/A
Luminaire Lumens: 10041.0 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.21 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

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: P895342

CATALOG NUMBER: 8TMB-SC3-ASMF-UNV-CC93-HI-5000K

Luminous Intensity Polar Plot



TEST NUMBER: P895342

CATALOG NUMBER: 8TMB-SC3-ASMF-UNV-CC93-HI-5000K

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°	14832	14832	14832	14832	14832
5°	15040	14505	14350	14252	14623
10°	15448	14214	13699	13575	14396
15°	15697	13927	13091	13020	14114
20°	15797	13650	12398	12352	13804
25°	16109	13223	11669	11798	13574
30°	16235	12811	10976	11196	13290
35°	16227	12361	10249	10617	13030
40°	16407	11894	9502	9963	12776
45°	16398	11340	8765	9467	12650
50°	16570	10770	8057	8896	12583
55°	16997	10276	7246	8324	12583
60°	17357	9659	6415	7716	12808
65°	18064	8989	5572	7111	13175
70°	19707	8351	4568	6534	13741
75°	22441	7894	3493	5860	14888
80°	28593	7456	2340	5269	17924
85°	45537	7387	1174	4661	26777

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 260838 cd/sqm

TEST NUMBER: P895342

CATALOG NUMBER: 8TMB-SC3-ASMF-UNV-CC93-HI-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.1	2.8
10°-20°	794.2	7.9
20°-30°	1197.6	11.9
30°-40°	1437.4	14.3
40°-50°	1496.7	14.9
50°-60°	1387.5	13.8
60°-70°	1142.6	11.4
70°-80°	824.2	8.2
80°-90°	523.3	5.2
90°-100°	322.6	3.2
100°-110°	215.1	2.1
110°-120°	153.2	1.5
120°-130°	112.2	1.1
130°-140°	77.2	0.8
140°-150°	47.0	0.5
150°-160°	23.3	0.2
160°-170°	8.5	0.1
170°-180°	1.4	0.0
0°-30°	2268.9	22.6
0°-40°	3706.3	36.9
0°-60°	6590.5	65.6
0°-90°	9080.6	90.4
90°-120°	690.8	6.9
90°-150°	927.2	9.2
90°-180°	960.0	9.6
0°-180°	10041.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2920	2920	2920	2920	2920	
5°	2954	2931	2931	2880	2872	283
15°	2998	2893	2804	2704	2696	845
25°	2896	2738	2539	2443	2440	1332
35°	2646	2474	2198	2125	2125	1658
45°	2319	2122	1795	1771	1789	1794
55°	1963	1730	1368	1402	1453	1744
65°	1554	1300	932	1028	1133	1547
75°	1210	918	491	682	803	1283
85°	921	625	128	394	542	782
90°	805	520	12	280	422	444
95°	717	440	7	188	326	570
105°	562	345	7	77	171	600
115°	461	285	9	36	82	462
125°	375	238	10	29	47	342
135°	301	190	10	22	35	236
145°	231	134	10	16	25	146
155°	158	89	12	10	16	74
165°	92	51	12	7	9	27
175°	13	22	13	6	2	3
180°	9	9	9	9	9	

TEST NUMBER: P895342

CATALOG NUMBER: 8TMB-SC3-ASMF-UNV-CC93-HI-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2920.5	2920.5	2920.5	2920.5	2920.5	2920.5	2920.5	2920.5	2920.5
2.5°	2932.2	2940.9	2913.2	2930.7	2927.8	2930.7	2895.7	2924.9	2879.6
5°	2954.1	2958.5	2930.7	2940.9	2930.7	2905.9	2879.6	2869.4	2872.3
7.5°	2968.7	2992.1	2923.4	2926.3	2908.8	2882.5	2832.9	2841.6	2835.8
10°	3003.7	2977.4	2923.4	2910.3	2876.7	2848.9	2792.0	2796.4	2799.3
12.5°	2981.8	2976.0	2922.0	2873.8	2840.2	2816.8	2758.4	2743.8	2751.1
15°	2997.9	2973.1	2892.8	2854.8	2803.7	2762.8	2704.4	2694.2	2695.6
17.5°	2983.3	2962.8	2863.5	2811.0	2739.4	2714.6	2659.1	2641.6	2632.8
20°	2939.5	2929.3	2841.6	2751.1	2686.9	2638.7	2571.5	2561.3	2568.6
22.5°	2910.3	2885.5	2797.8	2707.3	2613.8	2571.5	2504.3	2502.9	2504.3
25°	2895.7	2863.5	2738.0	2643.1	2539.4	2501.4	2443.0	2421.1	2440.1
27.5°	2851.9	2822.7	2675.2	2571.5	2456.1	2405.0	2356.8	2352.5	2355.4
30°	2793.5	2736.5	2618.2	2491.2	2380.2	2327.6	2288.2	2259.0	2286.8
32.5°	2710.2	2678.1	2543.8	2405.0	2282.4	2245.9	2206.4	2203.5	2203.5
35°	2646.0	2622.6	2473.7	2329.1	2197.7	2148.0	2124.7	2114.4	2124.7
37.5°	2571.5	2536.5	2399.2	2237.1	2102.8	2060.4	2037.0	2028.3	2035.6
40°	2507.2	2443.0	2311.6	2142.2	1999.1	1961.1	1936.3	1945.1	1952.4
42.5°	2412.3	2375.8	2207.9	2045.8	1910.0	1869.1	1848.7	1856.0	1873.5
45°	2318.9	2285.3	2121.7	1945.1	1794.6	1772.7	1771.3	1766.9	1788.8
47.5°	2234.2	2186.0	2026.8	1845.8	1698.3	1673.4	1676.4	1691.0	1710.0
50°	2136.3	2079.4	1921.7	1739.2	1591.7	1575.6	1587.3	1597.5	1622.3
52.5°	2038.5	1993.2	1825.3	1638.4	1483.6	1471.9	1488.0	1521.6	1536.2
55°	1962.6	1880.8	1730.4	1520.1	1368.3	1369.7	1401.8	1420.8	1452.9
57.5°	1841.4	1780.0	1622.3	1415.0	1260.2	1270.4	1314.2	1346.4	1366.8
60°	1755.2	1677.8	1517.2	1302.5	1146.3	1162.4	1212.0	1260.2	1295.2
62.5°	1644.2	1577.1	1407.7	1191.6	1041.2	1064.5	1120.0	1177.0	1201.8
65°	1553.7	1477.8	1299.6	1080.6	931.6	959.4	1028.0	1092.3	1133.2
67.5°	1476.3	1397.5	1203.2	978.4	820.7	861.5	941.9	1004.7	1036.8
70°	1384.3	1292.3	1093.7	864.5	705.3	753.5	855.7	928.7	965.2
72.5°	1286.5	1212.0	998.8	759.3	598.7	657.1	769.6	845.5	880.5
75°	1210.5	1127.3	918.5	654.2	490.6	560.7	681.9	768.1	803.1
77.5°	1133.2	1057.2	828.0	557.8	394.3	473.1	604.5	699.5	736.0
80°	1064.5	976.9	752.0	479.0	293.5	387.0	531.5	625.0	667.3
82.5°	988.6	912.7	686.3	395.7	208.8	308.1	460.0	562.2	597.2
85°	921.4	842.6	625.0	330.0	128.5	238.0	394.3	499.4	541.8
87.5°	860.1	794.4	568.0	280.4	64.3	181.1	331.5	438.1	486.3
90°	804.6	730.1	519.8	235.1	11.7	131.4	280.4	385.5	422.0
92.5°	769.6	680.5	480.4	205.9	7.3	93.5	233.6	337.3	379.7
95°	717.0	638.1	439.5	184.0	7.3	62.8	188.4	289.1	325.6
97.5°	671.7	598.7	410.3	170.8	5.8	42.3	154.8	242.4	280.4
100°	636.7	568.0	384.0	159.2	7.3	30.7	122.7	205.9	239.5
102.5°	597.2	534.5	363.6	151.9	7.3	21.9	96.4	173.8	204.4
105°	562.2	506.7	344.6	144.6	7.3	19.0	77.4	143.1	170.8
107.5°	535.9	477.5	328.6	140.2	7.3	19.0	61.3	116.8	140.2
110°	509.6	454.1	312.5	135.8	7.3	17.5	48.2	96.4	116.8

TEST NUMBER: P895342

CATALOG NUMBER: 8TMB-SC3-ASMF-UNV-CC93-HI-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	492.1	432.2	297.9	131.4	8.8	17.5	39.4	80.3	96.4
115°	461.4	413.3	284.7	130.0	8.8	16.1	36.5	65.7	81.8
117.5°	439.5	395.7	271.6	125.6	8.8	16.1	35.0	54.0	65.7
120°	423.5	375.3	259.9	121.2	8.8	14.6	32.1	48.2	55.5
122.5°	403.0	356.3	249.7	118.3	8.8	14.6	30.7	45.3	49.6
125°	375.3	338.8	238.0	112.4	10.2	14.6	29.2	42.3	46.7
127.5°	357.8	322.7	229.3	105.1	10.2	13.1	27.7	39.4	43.8
130°	343.2	305.2	219.0	97.8	10.2	13.1	26.3	36.5	40.9
132.5°	321.3	287.7	204.4	92.0	10.2	11.7	23.4	33.6	38.0
135°	300.8	273.1	189.8	86.2	10.2	11.7	21.9	32.1	35.0
137.5°	287.7	258.5	176.7	80.3	10.2	10.2	20.4	29.2	32.1
140°	265.8	242.4	162.1	74.5	10.2	10.2	19.0	27.7	29.2
142.5°	249.7	226.3	148.9	68.6	10.2	10.2	17.5	24.8	27.7
145°	230.7	210.3	134.3	62.8	10.2	8.8	16.1	23.4	24.8
147.5°	213.2	191.3	122.7	58.4	10.2	8.8	14.6	20.4	21.9
150°	195.7	172.3	111.0	54.0	10.2	8.8	13.1	17.5	20.4
152.5°	176.7	148.9	99.3	49.6	10.2	8.8	11.7	16.1	17.5
155°	157.7	130.0	89.1	45.3	11.7	8.8	10.2	13.1	16.1
157.5°	141.6	112.4	78.9	40.9	11.7	7.3	10.2	11.7	13.1
160°	122.7	96.4	70.1	36.5	11.7	7.3	8.8	10.2	11.7
162.5°	108.1	80.3	61.3	33.6	11.7	7.3	8.8	8.8	10.2
165°	92.0	67.2	51.1	30.7	11.7	7.3	7.3	7.3	8.8
167.5°	74.5	52.6	42.3	27.7	11.7	7.3	7.3	5.8	7.3
170°	55.5	39.4	35.0	24.8	11.7	7.3	5.8	4.4	5.8
172.5°	24.8	30.7	27.7	21.9	13.1	7.3	5.8	4.4	2.9
175°	13.1	21.9	21.9	19.0	13.1	7.3	5.8	4.4	1.5
177.5°	10.2	13.1	16.1	16.1	13.1	8.8	5.8	2.9	1.5
180°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8

(END OF REPORT)