

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: P895331

Luminaire Tested: 8TMB-SC3-ASMF-UNV-CC83-HI-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895331
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-HI-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 80CRI, 3500K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

Summary

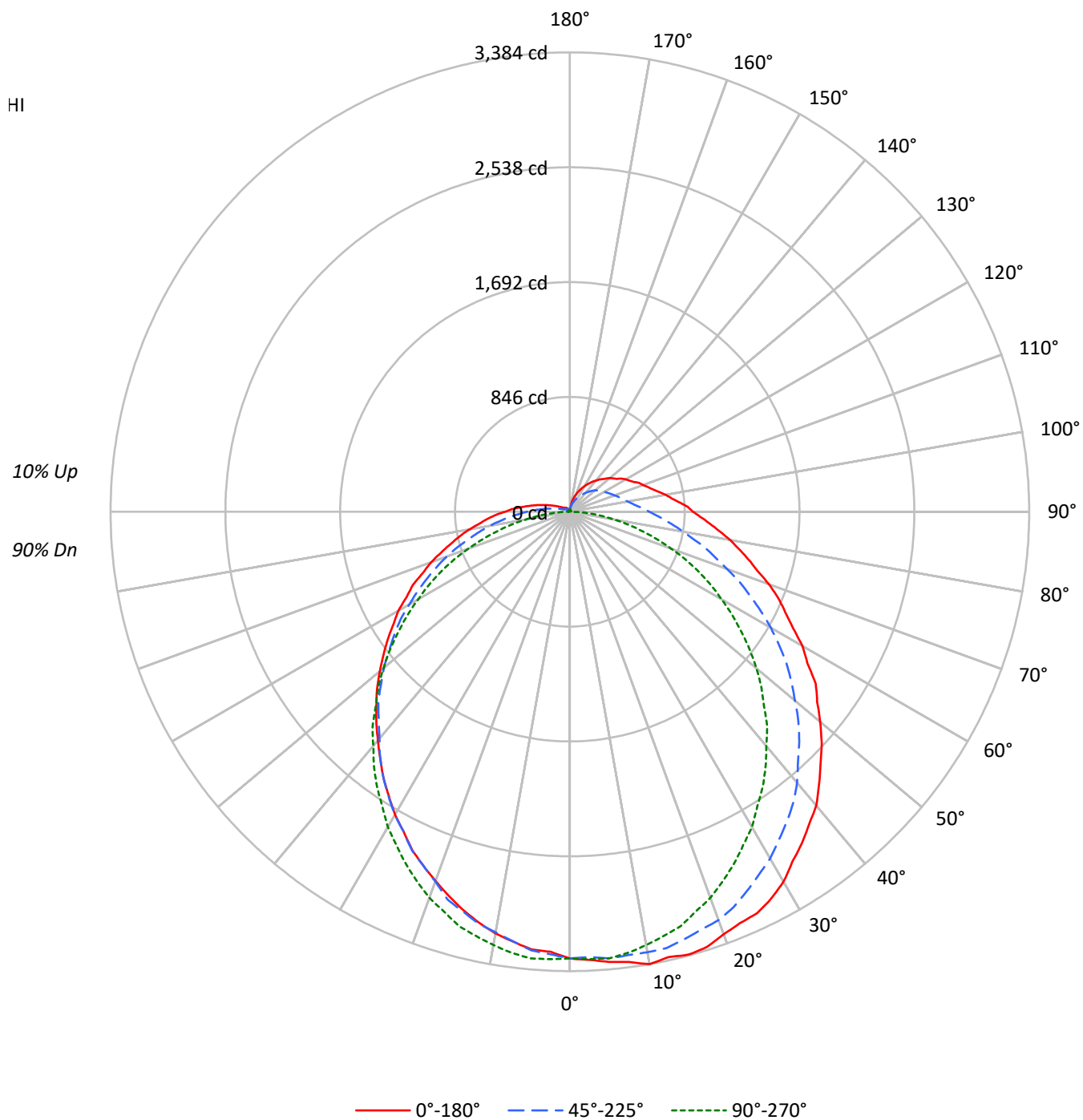
Lumens per Lamp: N/A
Luminaire Lumens: 11313.0 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.21 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

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°	16711	16711	16711	16711	16711
5°	16945	16342	16168	16057	16476
10°	17404	16015	15434	15295	16220
15°	17685	15691	14749	14669	15902
20°	17798	15379	13968	13917	15552
25°	18150	14898	13148	13293	15294
30°	18292	14434	12367	12615	14974
35°	18283	13926	11547	11962	14680
40°	18485	13400	10705	11225	14394
45°	18475	12776	9875	10666	14252
50°	18669	12134	9078	10023	14178
55°	19150	11578	8164	9379	14178
60°	19557	10882	7227	8693	14431
65°	20352	10129	6278	8011	14844
70°	22204	9410	5146	7362	15482
75°	25285	8894	3936	6603	16776
80°	32217	8400	2636	5938	20196
85°	51305	8323	1323	5250	30167

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 293873 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.2	2.8
10°-20°	894.8	7.9
20°-30°	1349.3	11.9
30°-40°	1619.5	14.3
40°-50°	1686.3	14.9
50°-60°	1563.2	13.8
60°-70°	1287.4	11.4
70°-80°	928.6	8.2
80°-90°	589.5	5.2
90°-100°	363.5	3.2
100°-110°	242.3	2.1
110°-120°	172.6	1.5
120°-130°	126.4	1.1
130°-140°	87.0	0.8
140°-150°	52.9	0.5
150°-160°	26.2	0.2
160°-170°	9.6	0.1
170°-180°	1.6	0.0
0°-30°	2556.3	22.6
0°-40°	4175.8	36.9
0°-60°	7425.4	65.6
0°-90°	10230.9	90.4
90°-120°	778.3	6.9
90°-150°	1044.7	9.2
90°-180°	1082.0	9.6
0°-180°	11313.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3290	3290	3290	3290	3290	
5°	3328	3302	3302	3244	3236	319
15°	3378	3259	3159	3047	3037	952
25°	3262	3085	2861	2752	2749	1500
35°	2981	2787	2476	2394	2394	1868
45°	2613	2390	2022	1996	2015	2022
55°	2211	1950	1542	1579	1637	1964
65°	1750	1464	1050	1158	1277	1743
75°	1364	1035	553	768	905	1445
85°	1038	704	145	444	610	881
90°	906	586	13	316	476	500
95°	808	495	8	212	367	642
105°	633	388	8	87	192	677
115°	520	321	10	41	92	521
125°	423	268	12	33	53	385
135°	339	214	12	25	40	266
145°	260	151	12	18	28	165
155°	178	100	13	12	18	84
165°	104	58	13	8	10	30
175°	15	25	15	7	2	3
180°	10	10	10	10	10	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	3290.5	3290.5	3290.5	3290.5	3290.5	3290.5	3290.5	3290.5	3290.5
2.5°	3303.6	3313.5	3282.2	3302.0	3298.7	3302.0	3262.5	3295.4	3244.4
5°	3328.3	3333.2	3302.0	3313.5	3302.0	3274.0	3244.4	3232.9	3236.2
7.5°	3344.8	3371.1	3293.8	3297.1	3277.3	3247.7	3191.8	3201.6	3195.0
10°	3384.2	3354.6	3293.8	3279.0	3241.1	3209.9	3145.7	3150.6	3153.9
12.5°	3359.6	3353.0	3292.1	3237.8	3200.0	3173.7	3107.8	3091.4	3099.6
15°	3377.7	3349.7	3259.2	3216.4	3158.9	3112.8	3047.0	3035.5	3037.1
17.5°	3361.2	3338.2	3226.3	3167.1	3086.5	3058.5	2996.0	2976.2	2966.4
20°	3311.9	3300.3	3201.6	3099.6	3027.2	2972.9	2897.3	2885.7	2894.0
22.5°	3279.0	3251.0	3152.3	3050.3	2945.0	2897.3	2821.6	2819.9	2821.6
25°	3262.5	3226.3	3084.8	2977.9	2861.1	2818.3	2752.5	2727.8	2749.2
27.5°	3213.1	3180.2	3014.1	2897.3	2767.3	2709.7	2655.4	2650.5	2653.8
30°	3147.3	3083.2	2949.9	2806.8	2681.7	2622.5	2578.1	2545.2	2576.4
32.5°	3053.6	3017.4	2866.0	2709.7	2571.5	2530.4	2486.0	2482.7	2482.7
35°	2981.2	2954.8	2787.0	2624.2	2476.1	2420.1	2393.8	2382.3	2393.8
37.5°	2897.3	2857.8	2703.1	2520.5	2369.1	2321.4	2295.1	2285.2	2293.5
40°	2824.9	2752.5	2604.4	2413.6	2252.3	2209.6	2181.6	2191.5	2199.7
42.5°	2717.9	2676.8	2487.6	2305.0	2152.0	2105.9	2082.9	2091.1	2110.8
45°	2612.6	2574.8	2390.5	2191.5	2022.0	1997.3	1995.7	1990.7	2015.4
47.5°	2517.2	2462.9	2283.6	2079.6	1913.4	1885.4	1888.7	1905.2	1926.6
50°	2407.0	2342.8	2165.1	1959.5	1793.3	1775.2	1788.4	1799.9	1827.9
52.5°	2296.7	2245.7	2056.5	1846.0	1671.6	1658.4	1676.5	1714.3	1730.8
55°	2211.2	2119.1	1949.6	1712.7	1541.6	1543.2	1579.4	1600.8	1637.0
57.5°	2074.6	2005.5	1827.9	1594.2	1419.8	1431.4	1480.7	1516.9	1539.9
60°	1977.6	1890.4	1709.4	1467.5	1291.5	1309.6	1365.5	1419.8	1459.3
62.5°	1852.5	1776.9	1586.0	1342.5	1173.1	1199.4	1261.9	1326.1	1354.0
65°	1750.5	1665.0	1464.3	1217.5	1049.7	1080.9	1158.2	1230.6	1276.7
67.5°	1663.3	1574.5	1355.7	1102.3	924.6	970.7	1061.2	1131.9	1168.1
70°	1559.7	1456.0	1232.3	974.0	794.6	848.9	964.1	1046.4	1087.5
72.5°	1449.5	1365.5	1125.3	855.5	674.5	740.4	867.0	952.6	992.1
75°	1363.9	1270.1	1034.9	737.1	552.8	631.8	768.3	865.4	904.9
77.5°	1276.7	1191.2	932.8	628.5	444.2	533.1	681.1	788.1	829.2
80°	1199.4	1100.7	847.3	539.6	330.7	436.0	598.9	704.2	751.9
82.5°	1113.8	1028.3	773.3	445.9	235.3	347.1	518.2	633.4	672.9
85°	1038.1	949.3	704.2	371.8	144.8	268.2	444.2	562.7	610.4
87.5°	969.0	895.0	640.0	315.9	72.4	204.0	373.5	493.6	547.9
90°	906.5	822.6	585.7	264.9	13.2	148.1	315.9	434.3	475.5
92.5°	867.0	766.7	541.3	232.0	8.2	105.3	263.2	380.0	427.8
95°	807.8	719.0	495.2	207.3	8.2	70.7	212.2	325.8	366.9
97.5°	756.8	674.5	462.3	192.5	6.6	47.7	174.4	273.1	315.9
100°	717.3	640.0	432.7	179.3	8.2	34.5	138.2	232.0	269.8
102.5°	672.9	602.2	409.7	171.1	8.2	24.7	108.6	195.8	230.3
105°	633.4	570.9	388.3	162.9	8.2	21.4	87.2	161.2	192.5
107.5°	603.8	538.0	370.2	157.9	8.2	21.4	69.1	131.6	157.9
110°	574.2	511.7	352.1	153.0	8.2	19.7	54.3	108.6	131.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	554.4	487.0	335.6	148.1	9.9	19.7	44.4	90.5	108.6
115°	519.9	465.6	320.8	146.4	9.9	18.1	41.1	74.0	92.1
117.5°	495.2	445.9	306.0	141.5	9.9	18.1	39.5	60.9	74.0
120°	477.1	422.8	292.9	136.6	9.9	16.5	36.2	54.3	62.5
122.5°	454.1	401.4	281.3	133.3	9.9	16.5	34.5	51.0	55.9
125°	422.8	381.7	268.2	126.7	11.5	16.5	32.9	47.7	52.6
127.5°	403.1	363.6	258.3	118.5	11.5	14.8	31.3	44.4	49.4
130°	386.6	343.9	246.8	110.2	11.5	14.8	29.6	41.1	46.1
132.5°	362.0	324.1	230.3	103.6	11.5	13.2	26.3	37.8	42.8
135°	338.9	307.7	213.9	97.1	11.5	13.2	24.7	36.2	39.5
137.5°	324.1	291.2	199.1	90.5	11.5	11.5	23.0	32.9	36.2
140°	299.4	273.1	182.6	83.9	11.5	11.5	21.4	31.3	32.9
142.5°	281.3	255.0	167.8	77.3	11.5	11.5	19.7	28.0	31.3
145°	259.9	236.9	151.4	70.7	11.5	9.9	18.1	26.3	28.0
147.5°	240.2	215.5	138.2	65.8	11.5	9.9	16.5	23.0	24.7
150°	220.5	194.1	125.0	60.9	11.5	9.9	14.8	19.7	23.0
152.5°	199.1	167.8	111.9	55.9	11.5	9.9	13.2	18.1	19.7
155°	177.7	146.4	100.4	51.0	13.2	9.9	11.5	14.8	18.1
157.5°	159.6	126.7	88.8	46.1	13.2	8.2	11.5	13.2	14.8
160°	138.2	108.6	79.0	41.1	13.2	8.2	9.9	11.5	13.2
162.5°	121.7	90.5	69.1	37.8	13.2	8.2	9.9	9.9	11.5
165°	103.6	75.7	57.6	34.5	13.2	8.2	8.2	8.2	9.9
167.5°	83.9	59.2	47.7	31.3	13.2	8.2	8.2	6.6	8.2
170°	62.5	44.4	39.5	28.0	13.2	8.2	6.6	4.9	6.6
172.5°	28.0	34.5	31.3	24.7	14.8	8.2	6.6	4.9	3.3
175°	14.8	24.7	24.7	21.4	14.8	8.2	6.6	4.9	1.6
177.5°	11.5	14.8	18.1	18.1	14.8	9.9	6.6	3.3	1.6
180°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9

(END OF REPORT)