

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: P895333

Luminaire Tested: 8TMB-SC3-ASMF-UNV-CC83-HI-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895333
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-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 80CRI, 5000K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

Summary

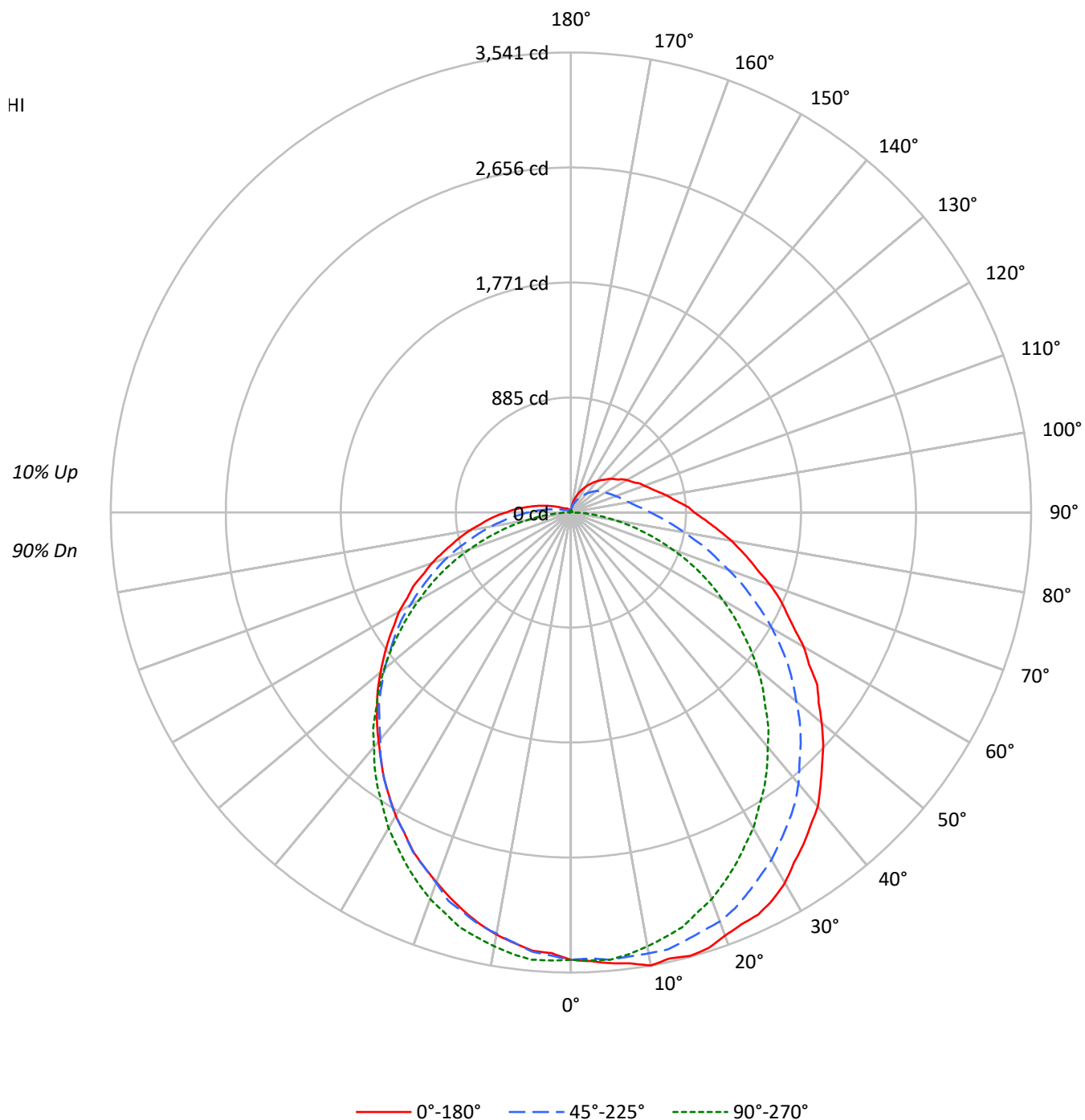
Lumens per Lamp: N/A
Luminaire Lumens: 11837.0 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.21 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

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		
1	105	99	95	90	101	96	92	88	90	87	83	85	82	79	79	77	75	72		
2	95	86	79	72	91	83	76	71	78	72	68	73	69	65	69	65	62	59		
3	86	75	66	60	83	73	65	58	68	62	56	64	59	54	60	56	52	49		
4	79	66	57	50	76	64	56	49	61	53	48	57	51	46	54	49	44	42		
5	72	59	50	43	69	57	49	42	54	47	41	51	45	40	48	43	38	36		
6	67	53	44	37	64	52	43	37	49	41	36	46	40	35	44	38	34	31		
7	62	48	39	33	59	47	38	32	44	37	32	42	36	31	40	34	30	28		
8	57	44	35	29	55	43	35	29	41	33	28	39	32	27	37	31	27	25		
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22		
10	50	37	29	24	49	36	29	23	34	28	23	33	27	22	31	26	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	17485	17485	17485	17485	17485
5°	17730	17099	16917	16801	17239
10°	18211	16757	16149	16004	16971
15°	18504	16418	15432	15349	16639
20°	18623	16091	14615	14562	16272
25°	18990	15588	13757	13909	16002
30°	19139	15102	12939	13199	15667
35°	19129	14572	12082	12516	15361
40°	19341	14021	11201	11745	15061
45°	19331	13369	10333	11160	14913
50°	19534	12696	9499	10487	14834
55°	20037	12114	8542	9814	14834
60°	20462	11386	7562	9096	15100
65°	21295	10597	6569	8383	15531
70°	23232	9846	5385	7703	16200
75°	26457	9306	4118	6909	17552
80°	33707	8789	2758	6212	21131
85°	53682	8709	1384	5494	31566

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 307488 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.7	2.8
10°-20°	936.3	7.9
20°-30°	1411.8	11.9
30°-40°	1694.5	14.3
40°-50°	1764.4	14.9
50°-60°	1635.6	13.8
60°-70°	1347.0	11.4
70°-80°	971.6	8.2
80°-90°	616.8	5.2
90°-100°	380.3	3.2
100°-110°	253.6	2.1
110°-120°	180.5	1.5
120°-130°	132.3	1.1
130°-140°	91.0	0.8
140°-150°	55.4	0.5
150°-160°	27.5	0.2
160°-170°	10.1	0.1
170°-180°	1.7	0.0
0°-30°	2674.7	22.6
0°-40°	4369.2	36.9
0°-60°	7769.3	65.6
0°-90°	10704.8	90.4
90°-120°	814.4	6.9
90°-150°	1093.1	9.2
90°-180°	1132.0	9.6
0°-180°	11837.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3443	3443	3443	3443	3443	
5°	3482	3455	3455	3395	3386	334
15°	3534	3410	3305	3188	3178	996
25°	3414	3228	2994	2880	2876	1570
35°	3119	2916	2591	2505	2505	1954
45°	2734	2501	2116	2088	2109	2115
55°	2314	2040	1613	1653	1713	2055
65°	1832	1532	1098	1212	1336	1824
75°	1427	1083	578	804	947	1512
85°	1086	737	152	465	639	922
90°	948	613	14	330	498	523
95°	845	518	9	222	384	672
105°	663	406	9	91	201	708
115°	544	336	10	43	96	545
125°	442	281	12	34	55	403
135°	355	224	12	26	41	278
145°	272	158	12	19	29	172
155°	186	105	14	12	19	88
165°	108	60	14	9	10	32
175°	16	26	16	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°	3442.9	3442.9	3442.9	3442.9	3442.9	3442.9	3442.9	3442.9	3442.9
2.5°	3456.7	3467.0	3434.3	3454.9	3451.5	3454.9	3413.6	3448.0	3394.7
5°	3482.5	3487.6	3454.9	3467.0	3454.9	3425.7	3394.7	3382.6	3386.1
7.5°	3499.7	3527.2	3446.3	3449.8	3429.1	3398.1	3339.6	3349.9	3343.0
10°	3541.0	3510.0	3446.3	3430.8	3391.2	3358.5	3291.4	3296.6	3300.0
12.5°	3515.2	3508.3	3444.6	3387.8	3348.2	3320.7	3251.8	3234.6	3243.2
15°	3534.1	3504.9	3410.2	3365.4	3305.2	3257.0	3188.1	3176.1	3177.8
17.5°	3516.9	3492.8	3375.7	3313.8	3229.4	3200.2	3134.7	3114.1	3103.8
20°	3465.3	3453.2	3349.9	3243.2	3167.4	3110.6	3031.5	3019.4	3028.0
22.5°	3430.8	3401.6	3298.3	3191.5	3081.4	3031.5	2952.3	2950.5	2952.3
25°	3413.6	3375.7	3227.7	3115.8	2993.6	2948.8	2880.0	2854.1	2876.5
27.5°	3362.0	3327.5	3153.7	3031.5	2895.5	2835.2	2778.4	2773.2	2776.7
30°	3293.1	3226.0	3086.5	2936.8	2805.9	2744.0	2697.5	2663.1	2695.8
32.5°	3195.0	3157.1	2998.7	2835.2	2690.6	2647.6	2601.1	2597.7	2597.7
35°	3119.2	3091.7	2916.1	2745.7	2590.8	2532.2	2504.7	2492.6	2504.7
37.5°	3031.5	2990.1	2828.3	2637.2	2478.9	2429.0	2401.4	2391.1	2399.7
40°	2955.7	2880.0	2725.0	2525.4	2356.7	2311.9	2282.6	2293.0	2301.6
42.5°	2843.8	2800.8	2602.8	2411.7	2251.6	2203.4	2179.3	2188.0	2208.6
45°	2733.6	2694.1	2501.3	2293.0	2115.6	2089.8	2088.1	2082.9	2108.8
47.5°	2633.8	2577.0	2389.4	2175.9	2002.0	1972.8	1976.2	1993.4	2015.8
50°	2518.5	2451.3	2265.4	2050.2	1876.4	1857.4	1871.2	1883.3	1912.5
52.5°	2403.1	2349.8	2151.8	1931.5	1749.0	1735.2	1754.1	1793.7	1811.0
55°	2313.6	2217.2	2039.9	1792.0	1613.0	1614.7	1652.6	1675.0	1712.8
57.5°	2170.7	2098.4	1912.5	1668.1	1485.6	1497.7	1549.3	1587.2	1611.3
60°	2069.2	1977.9	1788.6	1535.5	1351.3	1370.3	1428.8	1485.6	1526.9
62.5°	1938.3	1859.2	1659.5	1404.7	1227.4	1254.9	1320.3	1387.5	1416.7
65°	1831.6	1742.1	1532.1	1273.9	1098.3	1131.0	1211.9	1287.6	1335.8
67.5°	1740.4	1647.4	1418.5	1153.4	967.4	1015.6	1110.3	1184.4	1222.2
70°	1631.9	1523.5	1289.4	1019.1	831.5	888.3	1008.8	1094.8	1137.9
72.5°	1516.6	1428.8	1177.5	895.1	705.8	774.6	907.2	996.7	1038.0
75°	1427.1	1329.0	1082.8	771.2	578.4	661.0	803.9	905.5	946.8
77.5°	1335.8	1246.3	976.1	657.6	464.8	557.7	712.7	824.6	867.6
80°	1254.9	1151.6	886.5	564.6	346.0	456.2	626.6	736.8	786.7
82.5°	1165.4	1075.9	809.1	466.5	246.2	363.2	542.3	662.8	704.1
85°	1086.2	993.3	736.8	389.0	151.5	280.6	464.8	588.7	638.7
87.5°	1013.9	936.5	669.6	330.5	75.7	213.5	390.8	516.4	573.2
90°	948.5	860.7	612.8	277.2	13.8	154.9	330.5	454.5	497.5
92.5°	907.2	802.2	566.4	242.7	8.6	110.2	275.4	397.7	447.6
95°	845.2	752.3	518.2	216.9	8.6	74.0	222.1	340.8	383.9
97.5°	791.9	705.8	483.7	201.4	6.9	49.9	182.5	285.8	330.5
100°	750.5	669.6	452.7	187.6	8.6	36.2	144.6	242.7	282.3
102.5°	704.1	630.0	428.6	179.0	8.6	25.8	113.6	204.9	241.0
105°	662.8	597.3	406.3	170.4	8.6	22.4	91.2	168.7	201.4
107.5°	631.8	562.9	387.3	165.3	8.6	22.4	72.3	137.7	165.3
110°	600.8	535.4	368.4	160.1	8.6	20.7	56.8	113.6	137.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	580.1	509.5	351.2	154.9	10.3	20.7	46.5	94.7	113.6
115°	544.0	487.2	335.7	153.2	10.3	18.9	43.0	77.5	96.4
117.5°	518.2	466.5	320.2	148.0	10.3	18.9	41.3	63.7	77.5
120°	499.2	442.4	306.4	142.9	10.3	17.2	37.9	56.8	65.4
122.5°	475.1	420.0	294.4	139.4	10.3	17.2	36.2	53.4	58.5
125°	442.4	399.4	280.6	132.6	12.1	17.2	34.4	49.9	55.1
127.5°	421.8	380.4	270.3	123.9	12.1	15.5	32.7	46.5	51.6
130°	404.5	359.8	258.2	115.3	12.1	15.5	31.0	43.0	48.2
132.5°	378.7	339.1	241.0	108.5	12.1	13.8	27.5	39.6	44.8
135°	354.6	321.9	223.8	101.6	12.1	13.8	25.8	37.9	41.3
137.5°	339.1	304.7	208.3	94.7	12.1	12.1	24.1	34.4	37.9
140°	313.3	285.8	191.1	87.8	12.1	12.1	22.4	32.7	34.4
142.5°	294.4	266.8	175.6	80.9	12.1	12.1	20.7	29.3	32.7
145°	272.0	247.9	158.4	74.0	12.1	10.3	18.9	27.5	29.3
147.5°	251.3	225.5	144.6	68.9	12.1	10.3	17.2	24.1	25.8
150°	230.7	203.1	130.8	63.7	12.1	10.3	15.5	20.7	24.1
152.5°	208.3	175.6	117.1	58.5	12.1	10.3	13.8	18.9	20.7
155°	185.9	153.2	105.0	53.4	13.8	10.3	12.1	15.5	18.9
157.5°	167.0	132.6	93.0	48.2	13.8	8.6	12.1	13.8	15.5
160°	144.6	113.6	82.6	43.0	13.8	8.6	10.3	12.1	13.8
162.5°	127.4	94.7	72.3	39.6	13.8	8.6	10.3	10.3	12.1
165°	108.5	79.2	60.3	36.2	13.8	8.6	8.6	8.6	10.3
167.5°	87.8	62.0	49.9	32.7	13.8	8.6	8.6	6.9	8.6
170°	65.4	46.5	41.3	29.3	13.8	8.6	6.9	5.2	6.9
172.5°	29.3	36.2	32.7	25.8	15.5	8.6	6.9	5.2	3.4
175°	15.5	25.8	25.8	22.4	15.5	8.6	6.9	5.2	1.7
177.5°	12.1	15.5	18.9	18.9	15.5	10.3	6.9	3.4	1.7
180°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3

(END OF REPORT)