

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: P895332

Luminaire Tested: 8TMB-SC3-ASMF-UNV-CC83-HI-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895332
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-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 80CRI, 4000K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

Summary

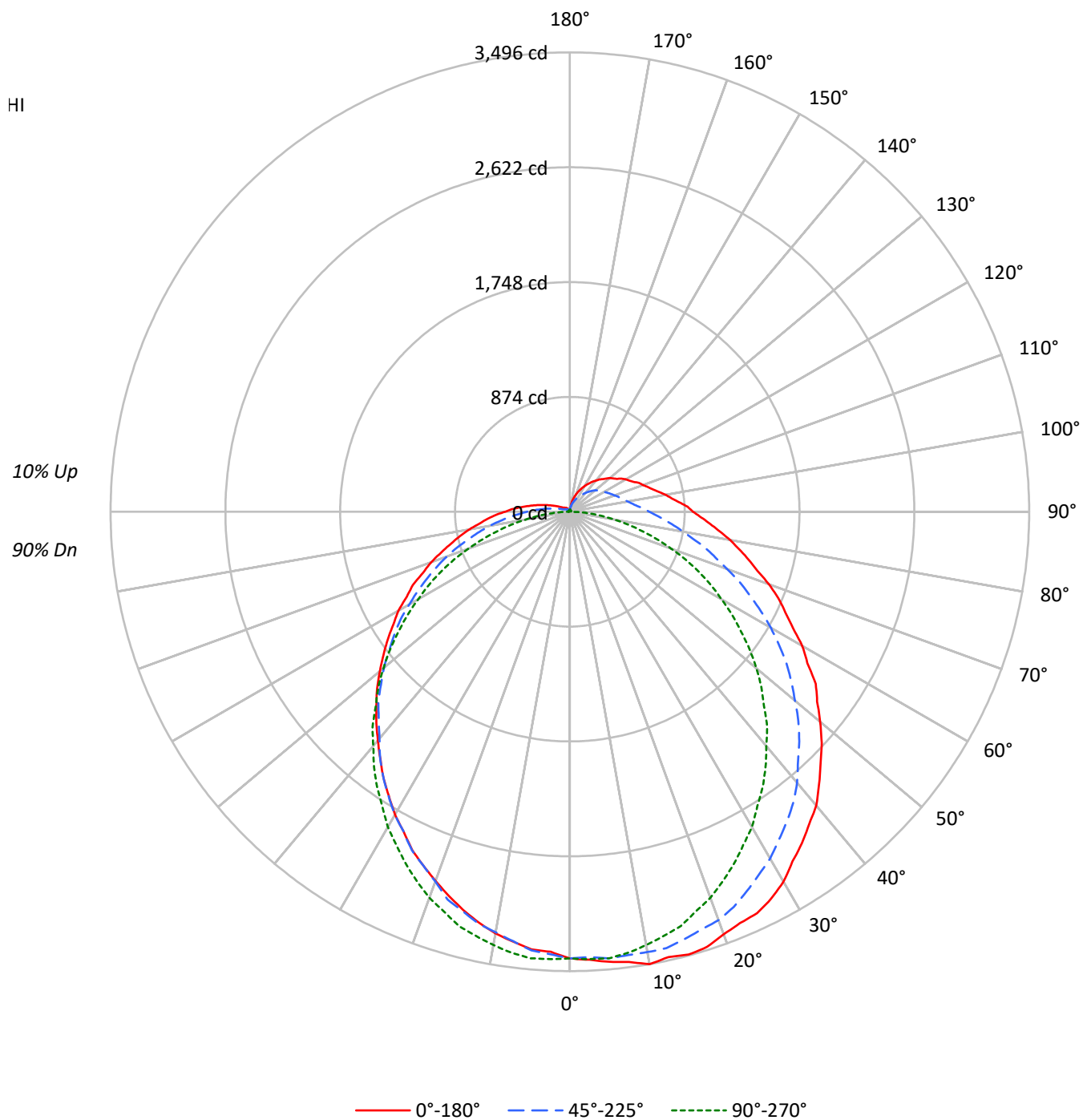
Lumens per Lamp: N/A
Luminaire Lumens: 11687.0 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.21 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

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°	17264	17264	17264	17264	17264
5°	17505	16882	16702	16588	17021
10°	17980	16545	15944	15801	16756
15°	18270	16210	15237	15154	16428
20°	18386	15888	14430	14377	16066
25°	18750	15390	13582	13732	15800
30°	18897	14911	12776	13032	15469
35°	18887	14387	11928	12357	15166
40°	19097	13843	11059	11596	14870
45°	19086	13199	10202	11019	14723
50°	19287	12536	9378	10354	14646
55°	19784	11961	8433	9689	14646
60°	20202	11242	7466	8981	14909
65°	21026	10463	6486	8276	15334
70°	22938	9720	5316	7605	15995
75°	26121	9188	4066	6821	17330
80°	33280	8678	2723	6134	20863
85°	53005	8598	1367	5424	31165

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 303598 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.5	2.8
10°-20°	924.4	7.9
20°-30°	1393.9	11.9
30°-40°	1673.0	14.3
40°-50°	1742.1	14.9
50°-60°	1614.9	13.8
60°-70°	1329.9	11.4
70°-80°	959.3	8.2
80°-90°	609.0	5.2
90°-100°	375.5	3.2
100°-110°	250.4	2.1
110°-120°	178.3	1.5
120°-130°	130.6	1.1
130°-140°	89.8	0.8
140°-150°	54.7	0.5
150°-160°	27.1	0.2
160°-170°	9.9	0.1
170°-180°	1.7	0.0
0°-30°	2640.8	22.6
0°-40°	4313.8	36.9
0°-60°	7670.8	65.6
0°-90°	10569.1	90.4
90°-120°	804.1	6.9
90°-150°	1079.2	9.2
90°-180°	1118.0	9.6
0°-180°	11687.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3399	3399	3399	3399	3399	
5°	3438	3411	3411	3352	3343	330
15°	3489	3367	3263	3148	3138	984
25°	3370	3187	2956	2844	2840	1550
35°	3080	2879	2558	2473	2473	1930
45°	2699	2470	2089	2062	2082	2088
55°	2284	2014	1592	1632	1691	2029
65°	1808	1513	1084	1196	1319	1801
75°	1409	1069	571	794	935	1493
85°	1072	727	150	459	631	910
90°	936	605	14	326	491	517
95°	834	512	8	219	379	663
105°	654	401	8	90	199	699
115°	537	331	10	42	95	538
125°	437	277	12	34	54	397
135°	350	221	12	26	41	275
145°	268	156	12	19	29	170
155°	184	104	14	12	19	87
165°	107	60	14	8	10	31
175°	15	26	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°	3399.3	3399.3	3399.3	3399.3	3399.3	3399.3	3399.3	3399.3	3399.3
2.5°	3412.8	3423.0	3390.8	3411.1	3407.7	3411.1	3370.4	3404.3	3351.7
5°	3438.3	3443.4	3411.1	3423.0	3411.1	3382.3	3351.7	3339.8	3343.2
7.5°	3455.3	3482.5	3402.7	3406.0	3385.7	3355.1	3297.3	3307.5	3300.7
10°	3496.1	3465.5	3402.7	3387.4	3348.3	3316.0	3249.7	3254.8	3258.2
12.5°	3470.6	3463.8	3401.0	3344.9	3305.8	3278.6	3210.6	3193.6	3202.1
15°	3489.3	3460.4	3367.0	3322.8	3263.3	3215.7	3147.7	3135.8	3137.5
17.5°	3472.3	3448.5	3333.0	3271.8	3188.5	3159.6	3095.0	3074.6	3064.4
20°	3421.3	3409.4	3307.5	3202.1	3127.3	3071.2	2993.0	2981.1	2989.6
22.5°	3387.4	3358.5	3256.5	3151.1	3042.3	2993.0	2914.9	2913.2	2914.9
25°	3370.4	3333.0	3186.8	3076.3	2955.6	2911.5	2843.5	2818.0	2840.1
27.5°	3319.4	3285.4	3113.7	2993.0	2858.8	2799.3	2743.2	2738.1	2741.5
30°	3251.4	3185.1	3047.4	2899.6	2770.4	2709.2	2663.3	2629.3	2661.6
32.5°	3154.5	3117.1	2960.7	2799.3	2656.5	2614.0	2568.1	2564.7	2564.7
35°	3079.7	3052.5	2879.2	2710.9	2557.9	2500.1	2473.0	2461.1	2473.0
37.5°	2993.0	2952.2	2792.5	2603.8	2447.5	2398.2	2371.0	2360.8	2369.3
40°	2918.3	2843.5	2690.5	2493.4	2326.8	2282.6	2253.7	2263.9	2272.4
42.5°	2807.8	2765.3	2569.8	2381.2	2223.1	2175.5	2151.7	2160.2	2180.6
45°	2699.0	2659.9	2469.6	2263.9	2088.8	2063.3	2061.6	2056.5	2082.0
47.5°	2600.4	2544.3	2359.1	2148.3	1976.7	1947.8	1951.2	1968.2	1990.3
50°	2486.6	2420.3	2236.7	2024.3	1852.6	1833.9	1847.5	1859.4	1888.3
52.5°	2372.7	2320.0	2124.5	1907.0	1726.8	1713.2	1731.9	1771.0	1788.0
55°	2284.3	2189.1	2014.1	1769.3	1592.5	1594.2	1631.6	1653.7	1691.1
57.5°	2143.2	2071.8	1888.3	1646.9	1466.8	1478.7	1529.7	1567.1	1590.8
60°	2042.9	1952.9	1765.9	1516.1	1334.2	1352.9	1410.7	1466.8	1507.6
62.5°	1913.8	1835.6	1638.4	1386.9	1211.8	1239.0	1303.6	1369.9	1398.8
65°	1808.4	1720.0	1512.7	1257.7	1084.4	1116.7	1196.5	1271.3	1318.9
67.5°	1718.3	1626.5	1400.5	1138.7	955.2	1002.8	1096.3	1169.3	1206.7
70°	1611.2	1504.2	1273.0	1006.2	820.9	877.0	996.0	1081.0	1123.5
72.5°	1497.4	1410.7	1162.5	883.8	696.8	764.8	895.7	984.1	1024.9
75°	1409.0	1312.1	1069.1	761.4	571.1	652.7	793.7	894.0	934.8
77.5°	1318.9	1230.5	963.7	649.3	458.9	550.7	703.6	814.1	856.6
80°	1239.0	1137.0	875.3	557.5	341.6	450.4	618.7	727.4	776.7
82.5°	1150.6	1062.3	798.8	460.6	243.0	358.6	535.4	654.4	695.1
85°	1072.5	980.7	727.4	384.1	149.6	277.0	458.9	581.3	630.6
87.5°	1001.1	924.6	661.2	326.3	74.8	210.8	385.8	509.9	566.0
90°	936.5	849.8	605.1	273.6	13.6	153.0	326.3	448.7	491.2
92.5°	895.7	792.0	559.2	239.6	8.5	108.8	271.9	392.6	441.9
95°	834.5	742.7	511.6	214.2	8.5	73.1	219.3	336.5	379.0
97.5°	781.8	696.8	477.6	198.9	6.8	49.3	180.2	282.1	326.3
100°	741.0	661.2	447.0	185.3	8.5	35.7	142.8	239.6	278.7
102.5°	695.1	622.1	423.2	176.8	8.5	25.5	112.2	202.3	237.9
105°	654.4	589.8	401.1	168.3	8.5	22.1	90.1	166.6	198.9
107.5°	623.8	555.8	382.4	163.2	8.5	22.1	71.4	136.0	163.2
110°	593.2	528.6	363.7	158.1	8.5	20.4	56.1	112.2	136.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	572.8	503.1	346.7	153.0	10.2	20.4	45.9	93.5	112.2
115°	537.1	481.0	331.4	151.3	10.2	18.7	42.5	76.5	95.2
117.5°	511.6	460.6	316.1	146.2	10.2	18.7	40.8	62.9	76.5
120°	492.9	436.8	302.5	141.1	10.2	17.0	37.4	56.1	64.6
122.5°	469.1	414.7	290.6	137.7	10.2	17.0	35.7	52.7	57.8
125°	436.8	394.3	277.0	130.9	11.9	17.0	34.0	49.3	54.4
127.5°	416.4	375.6	266.8	122.4	11.9	15.3	32.3	45.9	51.0
130°	399.4	355.2	254.9	113.9	11.9	15.3	30.6	42.5	47.6
132.5°	373.9	334.8	237.9	107.1	11.9	13.6	27.2	39.1	44.2
135°	350.1	317.8	221.0	100.3	11.9	13.6	25.5	37.4	40.8
137.5°	334.8	300.8	205.7	93.5	11.9	11.9	23.8	34.0	37.4
140°	309.3	282.1	188.7	86.7	11.9	11.9	22.1	32.3	34.0
142.5°	290.6	263.4	173.4	79.9	11.9	11.9	20.4	28.9	32.3
145°	268.5	244.7	156.4	73.1	11.9	10.2	18.7	27.2	28.9
147.5°	248.1	222.7	142.8	68.0	11.9	10.2	17.0	23.8	25.5
150°	227.7	200.6	129.2	62.9	11.9	10.2	15.3	20.4	23.8
152.5°	205.7	173.4	115.6	57.8	11.9	10.2	13.6	18.7	20.4
155°	183.6	151.3	103.7	52.7	13.6	10.2	11.9	15.3	18.7
157.5°	164.9	130.9	91.8	47.6	13.6	8.5	11.9	13.6	15.3
160°	142.8	112.2	81.6	42.5	13.6	8.5	10.2	11.9	13.6
162.5°	125.8	93.5	71.4	39.1	13.6	8.5	10.2	10.2	11.9
165°	107.1	78.2	59.5	35.7	13.6	8.5	8.5	8.5	10.2
167.5°	86.7	61.2	49.3	32.3	13.6	8.5	8.5	6.8	8.5
170°	64.6	45.9	40.8	28.9	13.6	8.5	6.8	5.1	6.8
172.5°	28.9	35.7	32.3	25.5	15.3	8.5	6.8	5.1	3.4
175°	15.3	25.5	25.5	22.1	15.3	8.5	6.8	5.1	1.7
177.5°	11.9	15.3	18.7	18.7	15.3	10.2	6.8	3.4	1.7
180°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2

(END OF REPORT)