

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: P895338

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895338
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-MID-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 80CRI, 4000K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

Summary

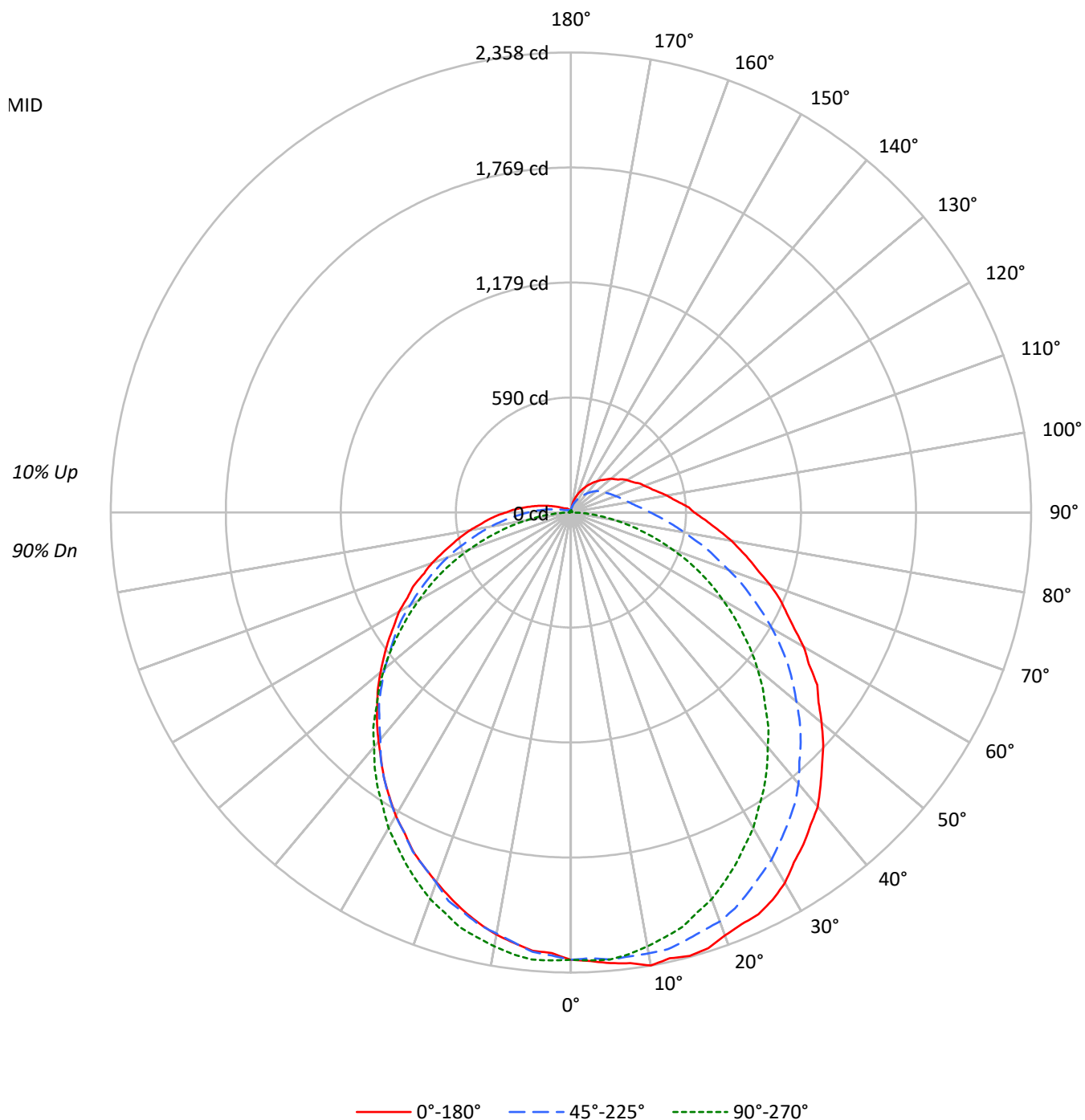
Lumens per Lamp: N/A
Luminaire Lumens: 7881.0 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.21 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

Input Watts (W): 66.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 5.65231997856897
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°	11641	11641	11641	11641	11641
5°	11804	11385	11263	11186	11477
10°	12125	11156	10752	10655	11299
15°	12320	10931	10275	10219	11078
20°	12398	10714	9731	9695	10834
25°	12644	10378	9159	9260	10654
30°	12742	10055	8615	8788	10431
35°	12736	9702	8044	8333	10227
40°	12877	9335	7457	7820	10028
45°	12870	8901	6880	7430	9929
50°	13006	8453	6324	6982	9876
55°	13341	8066	5687	6534	9877
60°	13623	7581	5035	6056	10053
65°	14179	7056	4373	5581	10341
70°	15468	6555	3585	5128	10785
75°	17614	6196	2742	4600	11687
80°	22442	5852	1837	4136	14070
85°	35742	5798	922	3658	21014

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 204722 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.5	2.8
10°-20°	623.4	7.9
20°-30°	940.0	11.9
30°-40°	1128.2	14.3
40°-50°	1174.7	14.9
50°-60°	1089.0	13.8
60°-70°	896.8	11.4
70°-80°	646.9	8.2
80°-90°	410.7	5.2
90°-100°	253.2	3.2
100°-110°	168.8	2.1
110°-120°	120.2	1.5
120°-130°	88.1	1.1
130°-140°	60.6	0.8
140°-150°	36.9	0.5
150°-160°	18.3	0.2
160°-170°	6.7	0.1
170°-180°	1.1	0.0
0°-30°	1780.8	22.6
0°-40°	2909.0	36.9
0°-60°	5172.7	65.6
0°-90°	7127.1	90.4
90°-120°	542.2	6.9
90°-150°	727.7	9.2
90°-180°	754.0	9.6
0°-180°	7881.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2292	2292	2292	2292	2292	
5°	2319	2300	2300	2260	2254	222
15°	2353	2270	2201	2123	2116	663
25°	2273	2149	1993	1918	1915	1045
35°	2077	1942	1725	1668	1668	1301
45°	1820	1665	1409	1390	1404	1408
55°	1540	1358	1074	1100	1140	1368
65°	1220	1020	731	807	889	1214
75°	950	721	385	535	630	1007
85°	723	490	101	310	425	614
90°	632	408	9	220	331	348
95°	563	345	6	148	256	447
105°	441	270	6	61	134	471
115°	362	224	7	29	64	363
125°	295	187	8	23	37	268
135°	236	149	8	17	28	185
145°	181	105	8	13	20	115
155°	124	70	9	8	13	58
165°	72	40	9	6	7	21
175°	10	17	10	5	1	2
180°	7	7	7	7	7	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2292.2	2292.2	2292.2	2292.2	2292.2	2292.2	2292.2	2292.2	2292.2
2.5°	2301.4	2308.3	2286.5	2300.3	2298.0	2300.3	2272.8	2295.7	2260.2
5°	2318.6	2322.0	2300.3	2308.3	2300.3	2280.8	2260.2	2252.1	2254.4
7.5°	2330.1	2348.4	2294.5	2296.8	2283.1	2262.4	2223.5	2230.4	2225.8
10°	2357.6	2336.9	2294.5	2284.2	2257.9	2236.1	2191.4	2194.8	2197.1
12.5°	2340.4	2335.8	2293.4	2255.6	2229.2	2210.9	2165.0	2153.6	2159.3
15°	2353.0	2333.5	2270.5	2240.7	2200.6	2168.5	2122.6	2114.6	2115.7
17.5°	2341.5	2325.5	2247.5	2206.3	2150.1	2130.6	2087.1	2073.3	2066.5
20°	2307.1	2299.1	2230.4	2159.3	2108.9	2071.0	2018.3	2010.3	2016.0
22.5°	2284.2	2264.7	2196.0	2124.9	2051.6	2018.3	1965.6	1964.5	1965.6
25°	2272.8	2247.5	2149.0	2074.5	1993.1	1963.3	1917.5	1900.3	1915.2
27.5°	2238.4	2215.5	2099.7	2018.3	1927.8	1887.7	1849.8	1846.4	1848.7
30°	2192.5	2147.8	2055.0	1955.3	1868.2	1826.9	1796.0	1773.1	1794.8
32.5°	2127.2	2102.0	1996.5	1887.7	1791.4	1762.7	1731.8	1729.5	1729.5
35°	2076.8	2058.4	1941.5	1828.1	1724.9	1685.9	1667.6	1659.6	1667.6
37.5°	2018.3	1990.8	1883.1	1755.9	1650.4	1617.2	1598.8	1592.0	1597.7
40°	1967.9	1917.5	1814.3	1681.4	1569.0	1539.2	1519.8	1526.6	1532.4
42.5°	1893.4	1864.7	1732.9	1605.7	1499.1	1467.0	1451.0	1456.7	1470.5
45°	1820.0	1793.7	1665.3	1526.6	1408.6	1391.4	1390.2	1386.8	1404.0
47.5°	1753.6	1715.7	1590.8	1448.7	1332.9	1313.5	1315.8	1327.2	1342.1
50°	1676.8	1632.1	1508.3	1365.0	1249.3	1236.7	1245.8	1253.9	1273.3
52.5°	1600.0	1564.5	1432.7	1286.0	1164.5	1155.3	1167.9	1194.3	1205.7
55°	1540.4	1476.2	1358.2	1193.1	1073.9	1075.1	1100.3	1115.2	1140.4
57.5°	1445.3	1397.1	1273.3	1110.6	989.1	997.1	1031.5	1056.7	1072.8
60°	1377.6	1316.9	1190.8	1022.3	899.7	912.3	951.3	989.1	1016.6
62.5°	1290.5	1237.8	1104.9	935.2	817.2	835.5	879.1	923.8	943.3
65°	1219.5	1159.9	1020.1	848.1	731.2	753.0	806.9	857.3	889.4
67.5°	1158.7	1096.8	944.4	767.9	644.1	676.2	739.2	788.5	813.7
70°	1086.5	1014.3	858.4	678.5	553.6	591.4	671.6	728.9	757.6
72.5°	1009.7	951.3	783.9	596.0	469.9	515.8	604.0	663.6	691.1
75°	950.1	884.8	720.9	513.5	385.1	440.1	535.2	602.9	630.4
77.5°	889.4	829.8	649.9	437.8	309.5	371.3	474.5	549.0	577.6
80°	835.5	766.8	590.3	375.9	230.4	303.7	417.2	490.5	523.8
82.5°	775.9	716.3	538.7	310.6	163.9	241.8	361.0	441.3	468.8
85°	723.2	661.3	490.5	259.0	100.9	186.8	309.5	392.0	425.2
87.5°	675.1	623.5	445.8	220.1	50.4	142.1	260.2	343.8	381.7
90°	631.5	573.1	408.0	184.5	9.2	103.2	220.1	302.6	331.2
92.5°	604.0	534.1	377.1	161.6	5.7	73.4	183.4	264.8	298.0
95°	562.7	500.9	345.0	144.4	5.7	49.3	147.8	226.9	255.6
97.5°	527.2	469.9	322.1	134.1	4.6	33.2	121.5	190.3	220.1
100°	499.7	445.8	301.4	124.9	5.7	24.1	96.3	161.6	188.0
102.5°	468.8	419.5	285.4	119.2	5.7	17.2	75.6	136.4	160.5
105°	441.3	397.7	270.5	113.5	5.7	14.9	60.7	112.3	134.1
107.5°	420.6	374.8	257.9	110.0	5.7	14.9	48.1	91.7	110.0
110°	400.0	356.4	245.3	106.6	5.7	13.8	37.8	75.6	91.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	386.2	339.3	233.8	103.2	6.9	13.8	30.9	63.0	75.6
115°	362.2	324.4	223.5	102.0	6.9	12.6	28.7	51.6	64.2
117.5°	345.0	310.6	213.2	98.6	6.9	12.6	27.5	42.4	51.6
120°	332.4	294.6	204.0	95.1	6.9	11.5	25.2	37.8	43.6
122.5°	316.3	279.7	196.0	92.8	6.9	11.5	24.1	35.5	39.0
125°	294.6	265.9	186.8	88.3	8.0	11.5	22.9	33.2	36.7
127.5°	280.8	253.3	179.9	82.5	8.0	10.3	21.8	30.9	34.4
130°	269.3	239.5	171.9	76.8	8.0	10.3	20.6	28.7	32.1
132.5°	252.1	225.8	160.5	72.2	8.0	9.2	18.3	26.4	29.8
135°	236.1	214.3	149.0	67.6	8.0	9.2	17.2	25.2	27.5
137.5°	225.8	202.9	138.7	63.0	8.0	8.0	16.0	22.9	25.2
140°	208.6	190.3	127.2	58.5	8.0	8.0	14.9	21.8	22.9
142.5°	196.0	177.6	116.9	53.9	8.0	8.0	13.8	19.5	21.8
145°	181.1	165.0	105.4	49.3	8.0	6.9	12.6	18.3	19.5
147.5°	167.3	150.1	96.3	45.8	8.0	6.9	11.5	16.0	17.2
150°	153.6	135.2	87.1	42.4	8.0	6.9	10.3	13.8	16.0
152.5°	138.7	116.9	77.9	39.0	8.0	6.9	9.2	12.6	13.8
155°	123.8	102.0	69.9	35.5	9.2	6.9	8.0	10.3	12.6
157.5°	111.2	88.3	61.9	32.1	9.2	5.7	8.0	9.2	10.3
160°	96.3	75.6	55.0	28.7	9.2	5.7	6.9	8.0	9.2
162.5°	84.8	63.0	48.1	26.4	9.2	5.7	6.9	6.9	8.0
165°	72.2	52.7	40.1	24.1	9.2	5.7	5.7	5.7	6.9
167.5°	58.5	41.3	33.2	21.8	9.2	5.7	5.7	4.6	5.7
170°	43.6	30.9	27.5	19.5	9.2	5.7	4.6	3.4	4.6
172.5°	19.5	24.1	21.8	17.2	10.3	5.7	4.6	3.4	2.3
175°	10.3	17.2	17.2	14.9	10.3	5.7	4.6	3.4	1.1
177.5°	8.0	10.3	12.6	12.6	10.3	6.9	4.6	2.3	1.1
180°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9

(END OF REPORT)