

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: P895347

Luminaire Tested: 8TMB-SC3-ASMF-UNV-CC93-MID-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895347
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-MID-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 90CRI, 4000K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

Summary

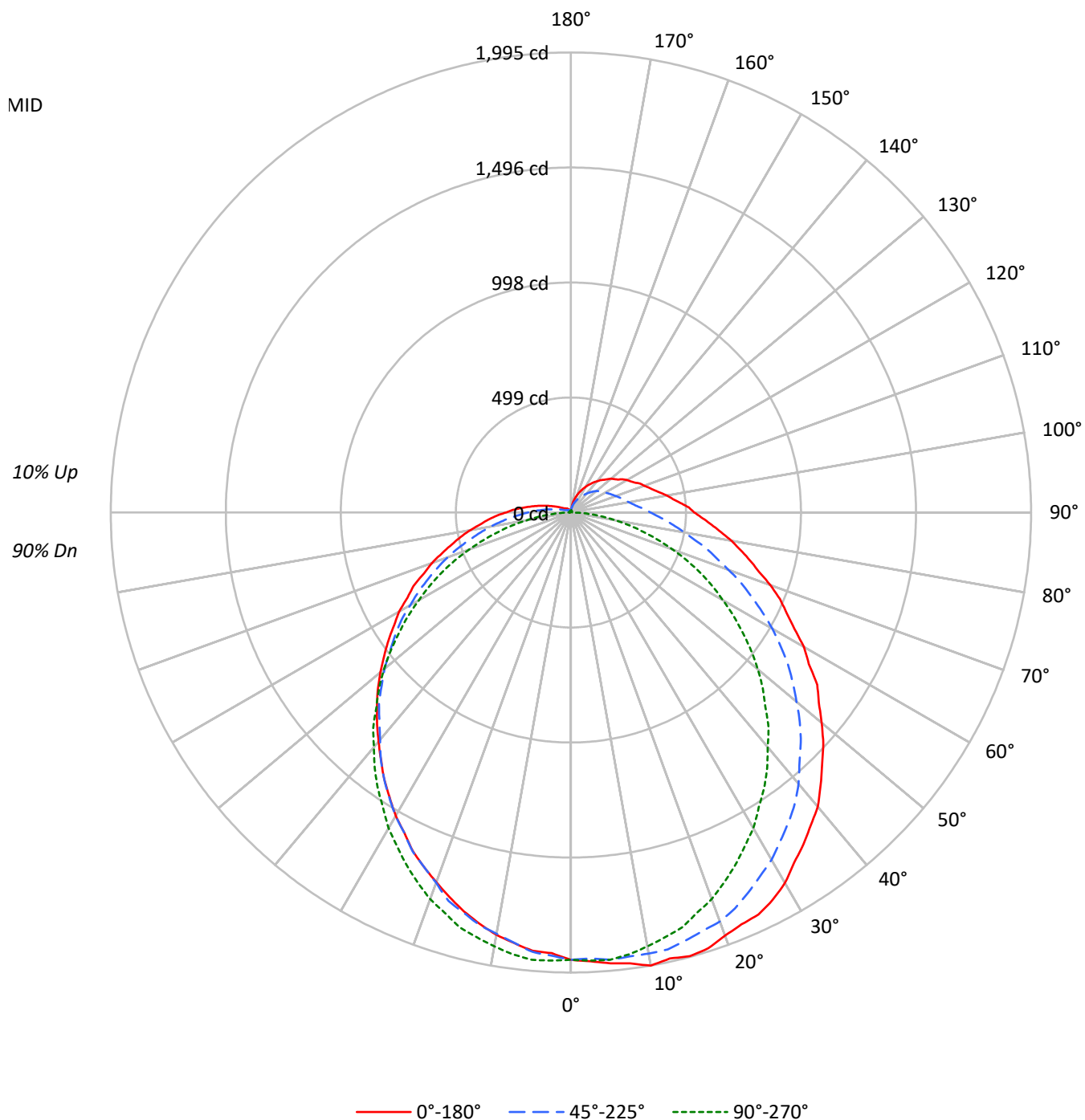
Lumens per Lamp: N/A
Luminaire Lumens: 6670.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.21 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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
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°	9853	9853	9853	9853	9853
5°	9990	9635	9533	9467	9714
10°	10262	9443	9100	9018	9563
15°	10427	9251	8696	8649	9375
20°	10493	9067	8236	8205	9169
25°	10701	8784	7751	7837	9017
30°	10784	8510	7291	7437	8828
35°	10779	8211	6808	7053	8656
40°	10899	7901	6311	6618	8487
45°	10893	7533	5822	6289	8403
50°	11007	7154	5352	5909	8359
55°	11291	6826	4813	5530	8359
60°	11531	6416	4261	5125	8509
65°	12000	5971	3702	4724	8751
70°	13092	5547	3034	4340	9128
75°	14907	5243	2320	3893	9890
80°	18993	4953	1554	3501	11907
85°	30251	4908	780	3096	17787

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 173276 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.1	2.8
10°-20°	527.6	7.9
20°-30°	795.5	11.9
30°-40°	954.8	14.3
40°-50°	994.2	14.9
50°-60°	921.7	13.8
60°-70°	759.0	11.4
70°-80°	547.5	8.2
80°-90°	347.6	5.2
90°-100°	214.3	3.2
100°-110°	142.9	2.1
110°-120°	101.7	1.5
120°-130°	74.5	1.1
130°-140°	51.3	0.8
140°-150°	31.2	0.5
150°-160°	15.5	0.2
160°-170°	5.7	0.1
170°-180°	0.9	0.0
0°-30°	1507.2	22.6
0°-40°	2462.0	36.9
0°-60°	4377.9	65.6
0°-90°	6032.0	90.4
90°-120°	458.9	6.9
90°-150°	615.9	9.2
90°-180°	638.0	9.6
0°-180°	6670.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1940	1940	1940	1940	1940	
5°	1962	1947	1947	1913	1908	188
15°	1991	1922	1862	1796	1791	561
25°	1924	1819	1687	1623	1621	885
35°	1758	1643	1460	1411	1411	1101
45°	1540	1409	1192	1177	1188	1192
55°	1304	1150	909	931	965	1158
65°	1032	863	619	683	753	1028
75°	804	610	326	453	534	852
85°	612	415	85	262	360	519
90°	534	345	8	186	280	295
95°	476	292	5	125	216	378
105°	374	229	5	51	114	399
115°	306	189	6	24	54	307
125°	249	158	7	19	31	227
135°	200	126	7	15	23	157
145°	153	89	7	11	16	97
155°	105	59	8	7	11	49
165°	61	34	8	5	6	18
175°	9	15	9	4	1	2
180°	6	6	6	6	6	

TEST NUMBER: P895347

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1940.0	1940.0	1940.0	1940.0	1940.0	1940.0	1940.0	1940.0	1940.0
2.5°	1947.8	1953.6	1935.2	1946.8	1944.9	1946.8	1923.5	1942.9	1912.9
5°	1962.3	1965.2	1946.8	1953.6	1946.8	1930.3	1912.9	1906.1	1908.0
7.5°	1972.0	1987.5	1942.0	1943.9	1932.3	1914.8	1881.8	1887.6	1883.8
10°	1995.3	1977.8	1942.0	1933.2	1910.9	1892.5	1854.7	1857.6	1859.5
12.5°	1980.8	1976.9	1941.0	1909.0	1886.7	1871.1	1832.3	1822.6	1827.5
15°	1991.4	1974.9	1921.6	1896.4	1862.4	1835.3	1796.5	1789.7	1790.6
17.5°	1981.7	1968.1	1902.2	1867.3	1819.7	1803.2	1766.4	1754.7	1748.9
20°	1952.6	1945.8	1887.6	1827.5	1784.8	1752.8	1708.2	1701.4	1706.2
22.5°	1933.2	1916.7	1858.5	1798.4	1736.3	1708.2	1663.6	1662.6	1663.6
25°	1923.5	1902.2	1818.8	1755.7	1686.8	1661.6	1622.8	1608.3	1620.9
27.5°	1894.4	1875.0	1777.1	1708.2	1631.6	1597.6	1565.6	1562.7	1564.6
30°	1855.6	1817.8	1739.2	1654.8	1581.1	1546.2	1520.0	1500.6	1519.0
32.5°	1800.3	1779.0	1689.8	1597.6	1516.1	1491.9	1465.7	1463.7	1463.7
35°	1757.7	1742.1	1643.2	1547.2	1459.9	1426.9	1411.4	1404.6	1411.4
37.5°	1708.2	1684.9	1593.7	1486.1	1396.8	1368.7	1353.2	1347.3	1352.2
40°	1665.5	1622.8	1535.5	1423.0	1327.9	1302.7	1286.2	1292.1	1296.9
42.5°	1602.5	1578.2	1466.7	1359.0	1268.8	1241.6	1228.0	1232.9	1244.5
45°	1540.4	1518.1	1409.4	1292.1	1192.1	1177.6	1176.6	1173.7	1188.3
47.5°	1484.1	1452.1	1346.4	1226.1	1128.1	1111.6	1113.6	1123.3	1135.9
50°	1419.1	1381.3	1276.5	1155.3	1057.3	1046.6	1054.4	1061.2	1077.7
52.5°	1354.1	1324.1	1212.5	1088.4	985.5	977.8	988.4	1010.8	1020.5
55°	1303.7	1249.4	1149.5	1009.8	908.9	909.9	931.2	943.8	965.2
57.5°	1223.2	1182.4	1077.7	939.9	837.1	843.9	873.0	894.3	907.9
60°	1166.0	1114.5	1007.8	865.2	761.5	772.1	805.1	837.1	860.4
62.5°	1092.2	1047.6	935.1	791.5	691.6	707.1	744.0	781.8	798.3
65°	1032.1	981.6	863.3	717.8	618.9	637.3	682.9	725.6	752.7
67.5°	980.7	928.3	799.3	649.9	545.1	572.3	625.7	667.4	688.7
70°	919.6	858.5	726.5	574.2	468.5	500.5	568.4	616.9	641.2
72.5°	854.6	805.1	663.5	504.4	397.7	436.5	511.2	561.6	584.9
75°	804.1	748.8	610.1	434.6	325.9	372.5	453.0	510.2	533.5
77.5°	752.7	702.3	550.0	370.5	261.9	314.3	401.6	464.6	488.9
80°	707.1	648.9	499.6	318.2	195.0	257.1	353.1	415.2	443.3
82.5°	656.7	606.3	455.9	262.9	138.7	204.7	305.6	373.5	396.7
85°	612.1	559.7	415.2	219.2	85.4	158.1	261.9	331.7	359.9
87.5°	571.3	527.7	377.3	186.2	42.7	120.3	220.2	291.0	323.0
90°	534.5	485.0	345.3	156.2	7.8	87.3	186.2	256.1	280.3
92.5°	511.2	452.0	319.1	136.8	4.9	62.1	155.2	224.1	252.2
95°	476.3	423.9	292.0	122.2	4.9	41.7	125.1	192.1	216.3
97.5°	446.2	397.7	272.6	113.5	3.9	28.1	102.8	161.0	186.2
100°	422.9	377.3	255.1	105.7	4.9	20.4	81.5	136.8	159.1
102.5°	396.7	355.0	241.5	100.9	4.9	14.6	64.0	115.4	135.8
105°	373.5	336.6	228.9	96.0	4.9	12.6	51.4	95.1	113.5
107.5°	356.0	317.2	218.3	93.1	4.9	12.6	40.7	77.6	93.1
110°	338.5	301.7	207.6	90.2	4.9	11.6	32.0	64.0	77.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	326.9	287.1	197.9	87.3	5.8	11.6	26.2	53.4	64.0
115°	306.5	274.5	189.2	86.3	5.8	10.7	24.3	43.7	54.3
117.5°	292.0	262.9	180.4	83.4	5.8	10.7	23.3	35.9	43.7
120°	281.3	249.3	172.7	80.5	5.8	9.7	21.3	32.0	36.9
122.5°	267.7	236.7	165.9	78.6	5.8	9.7	20.4	30.1	33.0
125°	249.3	225.0	158.1	74.7	6.8	9.7	19.4	28.1	31.0
127.5°	237.7	214.4	152.3	69.8	6.8	8.7	18.4	26.2	29.1
130°	228.0	202.7	145.5	65.0	6.8	8.7	17.5	24.3	27.2
132.5°	213.4	191.1	135.8	61.1	6.8	7.8	15.5	22.3	25.2
135°	199.8	181.4	126.1	57.2	6.8	7.8	14.6	21.3	23.3
137.5°	191.1	171.7	117.4	53.4	6.8	6.8	13.6	19.4	21.3
140°	176.5	161.0	107.7	49.5	6.8	6.8	12.6	18.4	19.4
142.5°	165.9	150.4	98.9	45.6	6.8	6.8	11.6	16.5	18.4
145°	153.3	139.7	89.2	41.7	6.8	5.8	10.7	15.5	16.5
147.5°	141.6	127.1	81.5	38.8	6.8	5.8	9.7	13.6	14.6
150°	130.0	114.5	73.7	35.9	6.8	5.8	8.7	11.6	13.6
152.5°	117.4	98.9	66.0	33.0	6.8	5.8	7.8	10.7	11.6
155°	104.8	86.3	59.2	30.1	7.8	5.8	6.8	8.7	10.7
157.5°	94.1	74.7	52.4	27.2	7.8	4.9	6.8	7.8	8.7
160°	81.5	64.0	46.6	24.3	7.8	4.9	5.8	6.8	7.8
162.5°	71.8	53.4	40.7	22.3	7.8	4.9	5.8	5.8	6.8
165°	61.1	44.6	34.0	20.4	7.8	4.9	4.9	4.9	5.8
167.5°	49.5	34.9	28.1	18.4	7.8	4.9	4.9	3.9	4.9
170°	36.9	26.2	23.3	16.5	7.8	4.9	3.9	2.9	3.9
172.5°	16.5	20.4	18.4	14.6	8.7	4.9	3.9	2.9	1.9
175°	8.7	14.6	14.6	12.6	8.7	4.9	3.9	2.9	1.0
177.5°	6.8	8.7	10.7	10.7	8.7	5.8	3.9	1.9	1.0
180°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8

(END OF REPORT)