

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: P895348

Luminaire Tested: 8TMB-SC3-ASMF-UNV-CC93-MID-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895348
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-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 90CRI, 5000K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

Summary

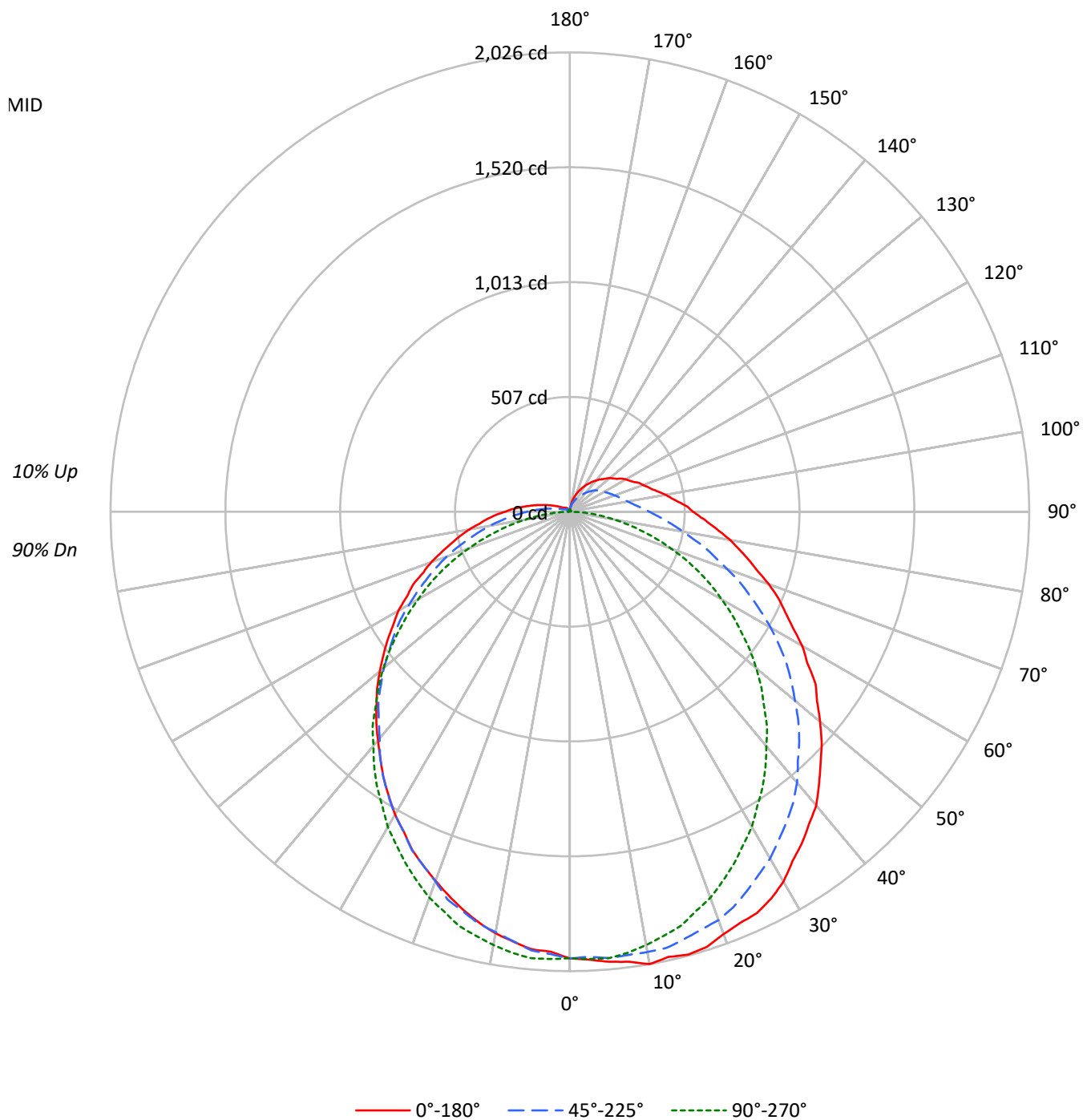
Lumens per Lamp: N/A
Luminaire Lumens: 6771.0 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.21 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

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

TEST NUMBER: P895348

CATALOG NUMBER: 8TMB-SC3-ASMF-UNV-CC93-MID-5000K

Luminous Intensity Polar Plot



TEST NUMBER: P895348

CATALOG NUMBER: 8TMB-SC3-ASMF-UNV-CC93-MID-5000K

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°	10002	10002	10002	10002	10002
5°	10142	9781	9677	9610	9861
10°	10417	9585	9238	9154	9708
15°	10585	9391	8827	8780	9518
20°	10652	9204	8360	8330	9308
25°	10863	8917	7869	7956	9154
30°	10948	8639	7402	7550	8962
35°	10943	8335	6911	7159	8786
40°	11064	8020	6407	6718	8615
45°	11058	7647	5911	6384	8530
50°	11174	7263	5433	5999	8485
55°	11462	6930	4886	5614	8486
60°	11705	6513	4326	5203	8637
65°	12181	6062	3757	4795	8884
70°	13290	5631	3080	4406	9266
75°	15133	5323	2356	3953	10041
80°	19281	5028	1578	3553	12087
85°	30706	4982	792	3143	18054

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 175902 cd/sqm

TEST NUMBER: P895348

CATALOG NUMBER: 8TMB-SC3-ASMF-UNV-CC93-MID-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.9	2.8
10°-20°	535.6	7.9
20°-30°	807.6	11.9
30°-40°	969.3	14.3
40°-50°	1009.3	14.9
50°-60°	935.6	13.8
60°-70°	770.5	11.4
70°-80°	555.8	8.2
80°-90°	352.8	5.2
90°-100°	217.5	3.2
100°-110°	145.0	2.1
110°-120°	103.3	1.5
120°-130°	75.7	1.1
130°-140°	52.0	0.8
140°-150°	31.7	0.5
150°-160°	15.7	0.2
160°-170°	5.8	0.1
170°-180°	1.0	0.0
0°-30°	1530.0	22.6
0°-40°	2499.3	36.9
0°-60°	4444.2	65.6
0°-90°	6123.3	90.4
90°-120°	465.9	6.9
90°-150°	625.2	9.2
90°-180°	648.0	9.6
0°-180°	6771.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1969	1969	1969	1969	1969	
5°	1992	1976	1976	1942	1937	191
15°	2022	1951	1891	1824	1818	570
25°	1953	1846	1712	1647	1645	898
35°	1784	1668	1482	1433	1433	1118
45°	1564	1431	1210	1194	1206	1210
55°	1323	1167	923	945	980	1176
65°	1048	876	628	693	764	1043
75°	816	619	331	460	542	865
85°	621	422	87	266	365	527
90°	543	351	8	189	285	299
95°	484	296	5	127	220	384
105°	379	232	5	52	115	405
115°	311	192	6	25	55	312
125°	253	160	7	20	32	230
135°	203	128	7	15	24	159
145°	156	91	7	11	17	98
155°	106	60	8	7	11	50
165°	62	34	8	5	6	18
175°	9	15	9	4	1	2
180°	6	6	6	6	6	

TEST NUMBER: P895348

CATALOG NUMBER: 8TMB-SC3-ASMF-UNV-CC93-MID-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1969.4	1969.4	1969.4	1969.4	1969.4	1969.4	1969.4	1969.4	1969.4
2.5°	1977.3	1983.2	1964.5	1976.3	1974.3	1976.3	1952.7	1972.3	1941.8
5°	1992.0	1995.0	1976.3	1983.2	1976.3	1959.5	1941.8	1934.9	1936.9
7.5°	2001.9	2017.6	1971.4	1973.3	1961.5	1943.8	1910.3	1916.2	1912.3
10°	2025.5	2007.8	1971.4	1962.5	1939.9	1921.1	1882.7	1885.7	1887.7
12.5°	2010.8	2006.8	1970.4	1937.9	1915.2	1899.5	1860.1	1850.2	1855.2
15°	2021.6	2004.8	1950.7	1925.1	1890.6	1863.0	1823.7	1816.8	1817.8
17.5°	2011.7	1998.0	1931.0	1895.5	1847.3	1830.6	1793.1	1781.3	1775.4
20°	1982.2	1975.3	1916.2	1855.2	1811.8	1779.3	1734.1	1727.2	1732.1
22.5°	1962.5	1945.8	1886.7	1825.6	1762.6	1734.1	1688.8	1687.8	1688.8
25°	1952.7	1931.0	1846.3	1782.3	1712.4	1686.8	1647.4	1632.6	1645.4
27.5°	1923.1	1903.4	1804.0	1734.1	1656.3	1621.8	1589.3	1586.3	1588.3
30°	1883.7	1845.3	1765.6	1679.9	1605.1	1569.6	1543.0	1523.3	1542.0
32.5°	1827.6	1805.9	1715.3	1621.8	1539.1	1514.5	1487.9	1485.9	1485.9
35°	1784.3	1768.5	1668.1	1570.6	1482.0	1448.5	1432.7	1425.8	1432.7
37.5°	1734.1	1710.4	1617.9	1508.6	1418.0	1389.4	1373.7	1367.7	1372.7
40°	1690.7	1647.4	1558.8	1444.6	1348.1	1322.4	1305.7	1311.6	1316.5
42.5°	1626.7	1602.1	1488.9	1379.6	1288.0	1260.4	1246.6	1251.6	1263.4
45°	1563.7	1541.1	1430.8	1311.6	1210.2	1195.4	1194.4	1191.5	1206.3
47.5°	1506.6	1474.1	1366.8	1244.7	1145.2	1128.5	1130.4	1140.3	1153.1
50°	1440.6	1402.2	1295.9	1172.8	1073.3	1062.5	1070.4	1077.3	1094.0
52.5°	1374.6	1344.1	1230.9	1104.8	1000.5	992.6	1003.4	1026.1	1035.9
55°	1323.4	1268.3	1166.9	1025.1	922.7	923.6	945.3	958.1	979.8
57.5°	1241.7	1200.3	1094.0	954.2	849.8	856.7	886.2	907.9	921.7
60°	1183.6	1131.4	1023.1	878.4	773.0	783.8	817.3	849.8	873.4
62.5°	1108.8	1063.5	949.2	803.5	702.1	717.8	755.3	793.7	810.4
65°	1047.7	996.5	876.4	728.7	628.2	646.9	693.2	736.6	764.1
67.5°	995.5	942.4	811.4	659.7	553.4	581.0	635.1	677.5	699.1
70°	933.5	871.5	737.5	582.9	475.6	508.1	577.0	626.3	650.9
72.5°	867.5	817.3	673.5	512.0	403.7	443.1	518.9	570.1	593.8
75°	816.3	760.2	619.4	441.1	330.9	378.1	459.9	518.0	541.6
77.5°	764.1	712.9	558.3	376.2	265.9	319.0	407.7	471.7	496.3
80°	717.8	658.8	507.1	323.0	197.9	260.9	358.4	421.5	450.0
82.5°	666.6	615.4	462.8	266.9	140.8	207.8	310.2	379.1	402.7
85°	621.3	568.2	421.5	222.5	86.7	160.5	265.9	336.8	365.3
87.5°	580.0	535.7	383.0	189.1	43.3	122.1	223.5	295.4	327.9
90°	542.6	492.3	350.6	158.5	7.9	88.6	189.1	260.0	284.6
92.5°	518.9	458.9	324.0	138.8	4.9	63.0	157.6	227.5	256.0
95°	483.5	430.3	296.4	124.1	4.9	42.3	127.0	195.0	219.6
97.5°	453.0	403.7	276.7	115.2	3.9	28.6	104.4	163.5	189.1
100°	429.3	383.0	259.0	107.3	4.9	20.7	82.7	138.8	161.5
102.5°	402.7	360.4	245.2	102.4	4.9	14.8	65.0	117.2	137.9
105°	379.1	341.7	232.4	97.5	4.9	12.8	52.2	96.5	115.2
107.5°	361.4	322.0	221.6	94.5	4.9	12.8	41.4	78.8	94.5
110°	343.7	306.2	210.7	91.6	4.9	11.8	32.5	65.0	78.8

TEST NUMBER: P895348

CATALOG NUMBER: 8TMB-SC3-ASMF-UNV-CC93-MID-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	331.8	291.5	200.9	88.6	5.9	11.8	26.6	54.2	65.0
115°	311.2	278.7	192.0	87.6	5.9	10.8	24.6	44.3	55.1
117.5°	296.4	266.9	183.2	84.7	5.9	10.8	23.6	36.4	44.3
120°	285.6	253.1	175.3	81.7	5.9	9.8	21.7	32.5	37.4
122.5°	271.8	240.3	168.4	79.8	5.9	9.8	20.7	30.5	33.5
125°	253.1	228.4	160.5	75.8	6.9	9.8	19.7	28.6	31.5
127.5°	241.3	217.6	154.6	70.9	6.9	8.9	18.7	26.6	29.5
130°	231.4	205.8	147.7	66.0	6.9	8.9	17.7	24.6	27.6
132.5°	216.6	194.0	137.9	62.0	6.9	7.9	15.8	22.6	25.6
135°	202.8	184.1	128.0	58.1	6.9	7.9	14.8	21.7	23.6
137.5°	194.0	174.3	119.1	54.2	6.9	6.9	13.8	19.7	21.7
140°	179.2	163.5	109.3	50.2	6.9	6.9	12.8	18.7	19.7
142.5°	168.4	152.6	100.4	46.3	6.9	6.9	11.8	16.7	18.7
145°	155.6	141.8	90.6	42.3	6.9	5.9	10.8	15.8	16.7
147.5°	143.8	129.0	82.7	39.4	6.9	5.9	9.8	13.8	14.8
150°	131.9	116.2	74.8	36.4	6.9	5.9	8.9	11.8	13.8
152.5°	119.1	100.4	67.0	33.5	6.9	5.9	7.9	10.8	11.8
155°	106.3	87.6	60.1	30.5	7.9	5.9	6.9	8.9	10.8
157.5°	95.5	75.8	53.2	27.6	7.9	4.9	6.9	7.9	8.9
160°	82.7	65.0	47.3	24.6	7.9	4.9	5.9	6.9	7.9
162.5°	72.9	54.2	41.4	22.6	7.9	4.9	5.9	5.9	6.9
165°	62.0	45.3	34.5	20.7	7.9	4.9	4.9	4.9	5.9
167.5°	50.2	35.4	28.6	18.7	7.9	4.9	4.9	3.9	4.9
170°	37.4	26.6	23.6	16.7	7.9	4.9	3.9	3.0	3.9
172.5°	16.7	20.7	18.7	14.8	8.9	4.9	3.9	3.0	2.0
175°	8.9	14.8	14.8	12.8	8.9	4.9	3.9	3.0	1.0
177.5°	6.9	8.9	10.8	10.8	8.9	5.9	3.9	2.0	1.0
180°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9

(END OF REPORT)