

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: P895337

Luminaire Tested: 8TMB-SC3-ASMF-UNV-CC83-MID-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895337
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-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 80CRI, 3500K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

Summary

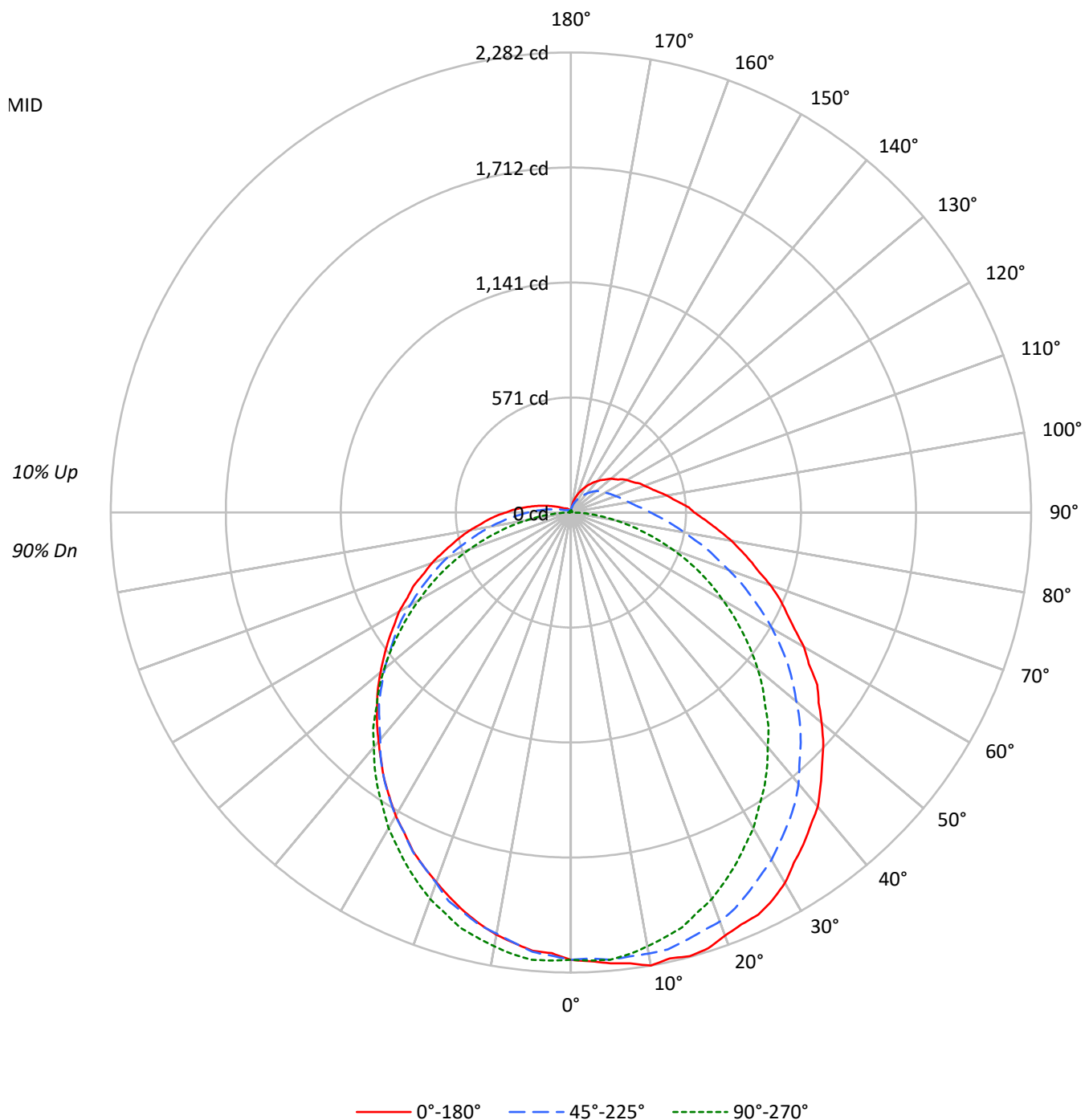
Lumens per Lamp: N/A
Luminaire Lumens: 7629.0 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.21 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

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°	11270	11270	11270	11270	11270
5°	11427	11020	10903	10828	11110
10°	11737	10800	10408	10314	10938
15°	11926	10581	9946	9892	10724
20°	12002	10371	9420	9385	10488
25°	12239	10047	8866	8964	10313
30°	12335	9734	8339	8507	10097
35°	12329	9392	7787	8067	9900
40°	12466	9037	7219	7570	9707
45°	12459	8616	6659	7193	9611
50°	12590	8183	6122	6759	9560
55°	12914	7807	5505	6325	9561
60°	13188	7338	4874	5863	9732
65°	13725	6830	4233	5403	10011
70°	14974	6345	3471	4965	10441
75°	17052	5998	2654	4453	11312
80°	21725	5665	1778	4003	13618
85°	34600	5613	892	3541	20342

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 198174 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.5	2.8
10°-20°	603.4	7.9
20°-30°	909.9	11.9
30°-40°	1092.1	14.3
40°-50°	1137.2	14.9
50°-60°	1054.2	13.8
60°-70°	868.1	11.4
70°-80°	626.2	8.2
80°-90°	397.6	5.2
90°-100°	245.1	3.2
100°-110°	163.4	2.1
110°-120°	116.4	1.5
120°-130°	85.3	1.1
130°-140°	58.6	0.8
140°-150°	35.7	0.5
150°-160°	17.7	0.2
160°-170°	6.5	0.1
170°-180°	1.1	0.0
0°-30°	1723.9	22.6
0°-40°	2816.0	36.9
0°-60°	5007.3	65.6
0°-90°	6899.3	90.4
90°-120°	524.9	6.9
90°-150°	704.5	9.2
90°-180°	730.0	9.6
0°-180°	7629.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2219	2219	2219	2219	2219	
5°	2244	2227	2227	2188	2182	215
15°	2278	2198	2130	2055	2048	642
25°	2200	2080	1929	1856	1854	1012
35°	2010	1880	1670	1614	1614	1260
45°	1762	1612	1364	1346	1359	1363
55°	1491	1315	1040	1065	1104	1325
65°	1180	987	708	781	861	1176
75°	920	698	373	518	610	975
85°	700	475	98	300	412	594
90°	611	395	9	213	321	337
95°	545	334	6	143	247	433
105°	427	262	6	59	130	456
115°	351	216	7	28	62	351
125°	285	181	8	22	36	259
135°	229	144	8	17	27	179
145°	175	102	8	12	19	111
155°	120	68	9	8	12	57
165°	70	39	9	6	7	20
175°	10	17	10	4	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°	2219.0	2219.0	2219.0	2219.0	2219.0	2219.0	2219.0	2219.0	2219.0
2.5°	2227.8	2234.5	2213.4	2226.7	2224.5	2226.7	2200.1	2222.3	2187.9
5°	2244.5	2247.8	2226.7	2234.5	2226.7	2207.9	2187.9	2180.1	2182.3
7.5°	2255.6	2273.3	2221.2	2223.4	2210.1	2190.1	2152.4	2159.0	2154.6
10°	2282.2	2262.2	2221.2	2211.2	2185.7	2164.6	2121.3	2124.6	2126.9
12.5°	2265.5	2261.1	2220.1	2183.4	2157.9	2140.2	2095.8	2084.7	2090.3
15°	2277.8	2258.9	2197.9	2169.0	2130.2	2099.1	2054.7	2047.0	2048.1
17.5°	2266.7	2251.1	2175.7	2135.7	2081.4	2062.5	2020.4	2007.0	2000.4
20°	2233.4	2225.6	2159.0	2090.3	2041.4	2004.8	1953.8	1946.0	1951.6
22.5°	2211.2	2192.3	2125.8	2057.0	1986.0	1953.8	1902.8	1901.6	1902.8
25°	2200.1	2175.7	2080.3	2008.2	1929.4	1900.5	1856.2	1839.5	1853.9
27.5°	2166.8	2144.6	2032.6	1953.8	1866.1	1827.3	1790.7	1787.4	1789.6
30°	2122.4	2079.2	1989.3	1892.8	1808.4	1768.5	1738.5	1716.4	1737.4
32.5°	2059.2	2034.8	1932.7	1827.3	1734.1	1706.4	1676.4	1674.2	1674.2
35°	2010.4	1992.6	1879.5	1769.6	1669.8	1632.0	1614.3	1606.5	1614.3
37.5°	1953.8	1927.2	1822.9	1699.7	1597.6	1565.5	1547.7	1541.1	1546.6
40°	1905.0	1856.2	1756.3	1627.6	1518.9	1490.0	1471.2	1477.8	1483.4
42.5°	1832.9	1805.1	1677.5	1554.4	1451.2	1420.1	1404.6	1410.1	1423.5
45°	1761.8	1736.3	1612.1	1477.8	1363.5	1346.9	1345.8	1342.5	1359.1
47.5°	1697.5	1660.9	1540.0	1402.4	1290.3	1271.5	1273.7	1284.8	1299.2
50°	1623.2	1579.9	1460.1	1321.4	1209.3	1197.1	1206.0	1213.8	1232.6
52.5°	1548.8	1514.4	1386.8	1244.8	1127.2	1118.4	1130.6	1156.1	1167.2
55°	1491.1	1429.0	1314.7	1155.0	1039.6	1040.7	1065.1	1079.5	1103.9
57.5°	1399.0	1352.5	1232.6	1075.1	957.5	965.2	998.5	1022.9	1038.5
60°	1333.6	1274.8	1152.7	989.7	870.9	883.1	920.9	957.5	984.1
62.5°	1249.3	1198.2	1069.5	905.3	791.1	808.8	851.0	894.2	913.1
65°	1180.5	1122.8	987.4	821.0	707.8	728.9	781.1	829.9	861.0
67.5°	1121.7	1061.8	914.2	743.3	623.5	654.6	715.6	763.3	787.7
70°	1051.8	981.9	831.0	656.8	535.9	572.5	650.2	705.6	733.4
72.5°	977.4	920.9	758.9	576.9	454.9	499.3	584.7	642.4	669.0
75°	919.8	856.5	697.9	497.0	372.8	426.0	518.1	583.6	610.2
77.5°	861.0	803.3	629.1	423.8	299.6	359.5	459.3	531.4	559.2
80°	808.8	742.2	571.4	363.9	223.0	294.0	403.8	474.9	507.0
82.5°	751.1	693.4	521.5	300.7	158.7	234.1	349.5	427.1	453.8
85°	700.1	640.2	474.9	250.7	97.6	180.8	299.6	379.4	411.6
87.5°	653.5	603.6	431.6	213.0	48.8	137.6	251.9	332.8	369.5
90°	611.3	554.7	395.0	178.6	8.9	99.9	213.0	292.9	320.6
92.5°	584.7	517.0	365.0	156.4	5.5	71.0	177.5	256.3	288.5
95°	544.8	484.8	334.0	139.8	5.5	47.7	143.1	219.7	247.4
97.5°	510.4	454.9	311.8	129.8	4.4	32.2	117.6	184.2	213.0
100°	483.7	431.6	291.8	120.9	5.5	23.3	93.2	156.4	182.0
102.5°	453.8	406.1	276.3	115.4	5.5	16.6	73.2	132.0	155.3
105°	427.1	385.0	261.8	109.8	5.5	14.4	58.8	108.7	129.8
107.5°	407.2	362.8	249.6	106.5	5.5	14.4	46.6	88.8	106.5
110°	387.2	345.0	237.4	103.2	5.5	13.3	36.6	73.2	88.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	373.9	328.4	226.3	99.9	6.7	13.3	30.0	61.0	73.2
115°	350.6	314.0	216.3	98.7	6.7	12.2	27.7	49.9	62.1
117.5°	334.0	300.7	206.4	95.4	6.7	12.2	26.6	41.1	49.9
120°	321.7	285.1	197.5	92.1	6.7	11.1	24.4	36.6	42.2
122.5°	306.2	270.7	189.7	89.9	6.7	11.1	23.3	34.4	37.7
125°	285.1	257.4	180.8	85.4	7.8	11.1	22.2	32.2	35.5
127.5°	271.8	245.2	174.2	79.9	7.8	10.0	21.1	30.0	33.3
130°	260.7	231.9	166.4	74.3	7.8	10.0	20.0	27.7	31.1
132.5°	244.1	218.6	155.3	69.9	7.8	8.9	17.8	25.5	28.8
135°	228.6	207.5	144.2	65.5	7.8	8.9	16.6	24.4	26.6
137.5°	218.6	196.4	134.2	61.0	7.8	7.8	15.5	22.2	24.4
140°	201.9	184.2	123.2	56.6	7.8	7.8	14.4	21.1	22.2
142.5°	189.7	172.0	113.2	52.1	7.8	7.8	13.3	18.9	21.1
145°	175.3	159.8	102.1	47.7	7.8	6.7	12.2	17.8	18.9
147.5°	162.0	145.3	93.2	44.4	7.8	6.7	11.1	15.5	16.6
150°	148.7	130.9	84.3	41.1	7.8	6.7	10.0	13.3	15.5
152.5°	134.2	113.2	75.4	37.7	7.8	6.7	8.9	12.2	13.3
155°	119.8	98.7	67.7	34.4	8.9	6.7	7.8	10.0	12.2
157.5°	107.6	85.4	59.9	31.1	8.9	5.5	7.8	8.9	10.0
160°	93.2	73.2	53.3	27.7	8.9	5.5	6.7	7.8	8.9
162.5°	82.1	61.0	46.6	25.5	8.9	5.5	6.7	6.7	7.8
165°	69.9	51.0	38.8	23.3	8.9	5.5	5.5	5.5	6.7
167.5°	56.6	39.9	32.2	21.1	8.9	5.5	5.5	4.4	5.5
170°	42.2	30.0	26.6	18.9	8.9	5.5	4.4	3.3	4.4
172.5°	18.9	23.3	21.1	16.6	10.0	5.5	4.4	3.3	2.2
175°	10.0	16.6	16.6	14.4	10.0	5.5	4.4	3.3	1.1
177.5°	7.8	10.0	12.2	12.2	10.0	6.7	4.4	2.2	1.1
180°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7

(END OF REPORT)