

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: P895281

Luminaire Tested: 8TMB-SC3-A-UNV-CC83-LOW-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-16)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-A-UNV-CC83-LOW-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTIC, 80CRI, 4000K CCT, LOW lumen settir
Light Source: -
Ballast/Driver: -

Summary

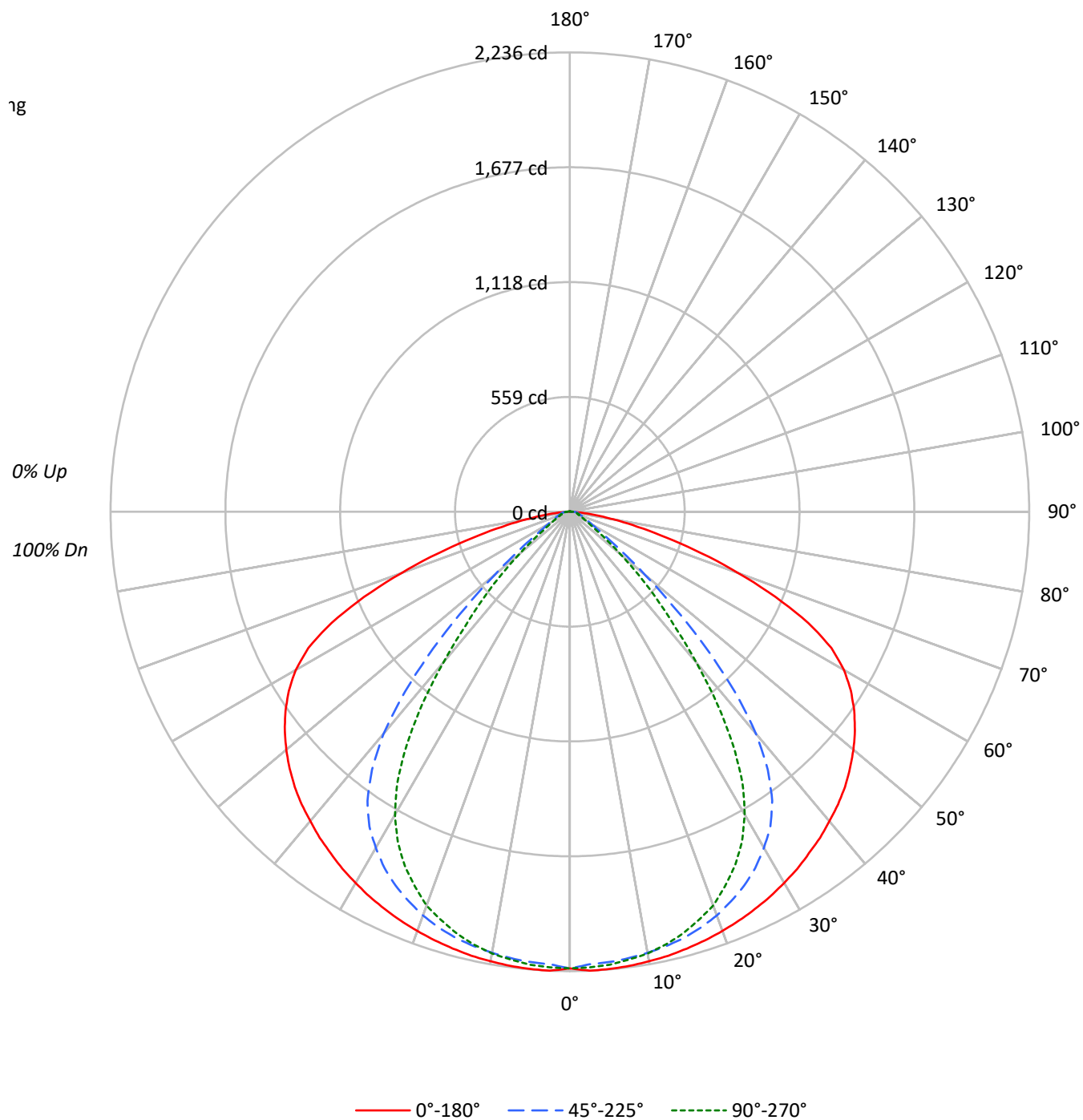
Lumens per Lamp: N/A
Luminaire Lumens: 4555.9 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.15 / 1.23
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9915
Total Harmonic Distortion (THDi): 6.67573310469889
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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	103	100	108	105	102	99	100	98	96	97	95	93	93	91	90	88		
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	84	81	79	77		
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67		
4	88	78	70	65	86	77	70	64	74	68	63	72	67	62	70	65	62	60		
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53		
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	47		
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43		
8	66	54	47	41	65	54	46	41	52	46	41	51	45	41	50	44	40	39		
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	46	41	37	35		
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11287	11287	11287
5°	11387	11218	11284
10°	11458	11243	11258
15°	11573	11291	11175
20°	11736	11301	11025
25°	11954	11252	10652
30°	12233	11075	9982
35°	12582	10649	8583
40°	13030	9353	6344
45°	13604	6749	4267
50°	14237	3770	2546
55°	14963	1950	1394
60°	15654	1268	987
65°	15387	1042	784
70°	12977	959	731
75°	9544	977	785
80°	6367	1152	989
85°	3479	1865	1503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 62.5°

Luminance: 15787 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.0	4.6
10°-20°	609.8	13.4
20°-30°	927.7	20.4
30°-40°	1059.5	23.3
40°-50°	854.7	18.8
50°-60°	467.8	10.3
60°-70°	246.7	5.4
70°-80°	121.0	2.7
80°-90°	42.6	0.9
90°-100°	9.2	0.2
100°-110°	1.3	0.0
110°-120°	0.7	0.0
120°-130°	0.7	0.0
130°-140°	0.7	0.0
140°-150°	0.9	0.0
150°-160°	0.8	0.0
160°-170°	0.6	0.0
170°-180°	0.2	0.0
0°-30°	1748.6	38.4
0°-40°	2808.0	61.6
0°-60°	4130.6	90.7
0°-90°	4540.8	99.7
90°-120°	11.1	0.2
90°-150°	13.4	0.3
90°-180°	15.0	0.3
0°-180°	4555.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2222	2222	2222	2222	2222	
5°	2234	2227	2200	2220	2213	213
15°	2201	2187	2148	2144	2125	623
25°	2133	2103	2008	1940	1901	986
35°	2029	1944	1718	1484	1384	1273
45°	1894	1627	940	642	594	1462
55°	1690	696	220	170	157	1508
65°	1280	160	87	70	65	1238
75°	486	90	50	42	40	537
85°	60	47	32	29	26	82
90°	2	25	20	17	16	4
95°	2	3	7	10	10	1
105°	1	0	1	1	1	1
115°	1	1	1	1	1	1
125°	1	1	1	1	1	1
135°	1	1	1	1	1	1
145°	1	1	1	2	1	1
155°	1	1	2	2	2	1
165°	1	2	2	2	2	0
175°	2	2	2	3	2	0
180°	2	2	2	2	2	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2222.5	2222.5	2222.5	2222.5	2222.5
2.5°	2236.0	2229.9	2204.7	2226.2	2220.0
5°	2233.6	2226.8	2200.4	2220.0	2213.3
7.5°	2229.3	2220.7	2191.8	2209.6	2199.1
10°	2221.9	2213.3	2180.1	2194.2	2183.1
12.5°	2213.3	2201.6	2164.7	2172.1	2157.9
15°	2201.0	2187.4	2147.5	2143.8	2125.3
17.5°	2187.4	2170.8	2122.3	2106.3	2084.1
20°	2171.5	2151.2	2090.9	2059.5	2039.9
22.5°	2153.6	2127.2	2051.5	2003.6	1972.8
25°	2133.3	2102.6	2007.9	1939.6	1900.9
27.5°	2111.8	2070.0	1955.0	1865.2	1812.9
30°	2086.0	2035.6	1888.6	1767.4	1702.2
32.5°	2060.1	1992.5	1817.2	1641.4	1563.9
35°	2029.4	1943.9	1717.6	1483.9	1384.3
37.5°	2000.5	1885.5	1582.9	1286.5	1179.5
40°	1965.4	1816.6	1410.7	1059.6	956.9
42.5°	1932.2	1736.7	1187.5	840.7	751.5
45°	1894.1	1627.2	939.7	642.0	594.1
47.5°	1849.8	1477.8	683.2	477.8	447.7
50°	1801.9	1272.4	477.2	346.8	322.2
52.5°	1749.0	995.0	321.6	241.1	227.5
55°	1689.9	695.5	220.2	170.3	157.4
57.5°	1621.7	452.6	159.9	128.5	119.9
60°	1541.1	289.0	124.8	102.1	97.2
62.5°	1435.3	202.9	102.7	84.3	79.9
65°	1280.4	160.5	86.7	70.1	65.2
67.5°	1084.2	135.9	74.4	59.0	56.0
70°	873.9	118.1	64.6	51.0	49.2
72.5°	671.5	103.3	56.0	45.5	44.3
75°	486.4	90.4	49.8	41.8	40.0
77.5°	337.0	78.1	44.3	37.5	36.3
80°	217.7	67.6	39.4	34.4	33.8
82.5°	124.8	56.6	35.7	33.2	32.6
85°	59.7	47.4	32.0	28.9	25.8
87.5°	19.1	35.1	25.2	22.1	19.7
90°	2.5	24.6	19.7	17.2	16.0
92.5°	2.5	13.5	14.1	14.1	13.5
95°	1.8	3.1	6.8	10.5	9.8
97.5°	1.8	1.2	4.3	7.4	7.4
100°	1.2	0.6	1.8	4.9	4.9
102.5°	1.2	0.6	0.6	3.1	3.1
105°	0.6	0.0	0.6	1.2	1.2
107.5°	0.6	0.6	0.6	1.2	0.6
110°	0.6	0.6	0.6	1.2	0.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.6	0.6	1.2	0.6
115°	0.6	0.6	0.6	1.2	0.6
117.5°	0.6	0.6	0.6	1.2	0.6
120°	0.6	0.6	0.6	1.2	0.6
122.5°	0.6	0.6	0.6	1.2	0.6
125°	0.6	0.6	0.6	1.2	0.6
127.5°	0.6	0.6	0.6	1.2	0.6
130°	0.6	0.6	1.2	1.2	0.6
132.5°	0.6	0.6	1.2	1.2	0.6
135°	0.6	0.6	1.2	1.2	0.6
137.5°	0.6	0.6	1.2	1.2	1.2
140°	1.2	0.6	1.2	1.2	1.2
142.5°	1.2	1.2	1.2	1.8	1.2
145°	1.2	1.2	1.2	1.8	1.2
147.5°	1.2	1.2	1.8	1.8	1.2
150°	1.2	1.2	1.8	1.8	1.2
152.5°	1.2	1.2	1.8	1.8	1.8
155°	1.2	1.2	1.8	2.5	1.8
157.5°	1.2	1.2	1.8	2.5	1.8
160°	1.2	1.8	2.5	2.5	1.8
162.5°	1.2	1.8	2.5	2.5	2.5
165°	1.2	1.8	2.5	2.5	2.5
167.5°	1.8	1.8	2.5	3.1	2.5
170°	1.8	1.8	2.5	3.1	2.5
172.5°	1.8	1.8	2.5	3.1	2.5
175°	1.8	1.8	2.5	3.1	2.5
177.5°	1.8	1.8	2.5	3.1	3.1
180°	2.5	2.5	2.5	2.5	2.5

(END OF REPORT)