

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: P895280

Luminaire Tested: 8TMB-SC3-A-UNV-CC83-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895280
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-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTIC, 80CRI, 3500K CCT, LOW lumen settir
Light Source: -
Ballast/Driver: -

Summary

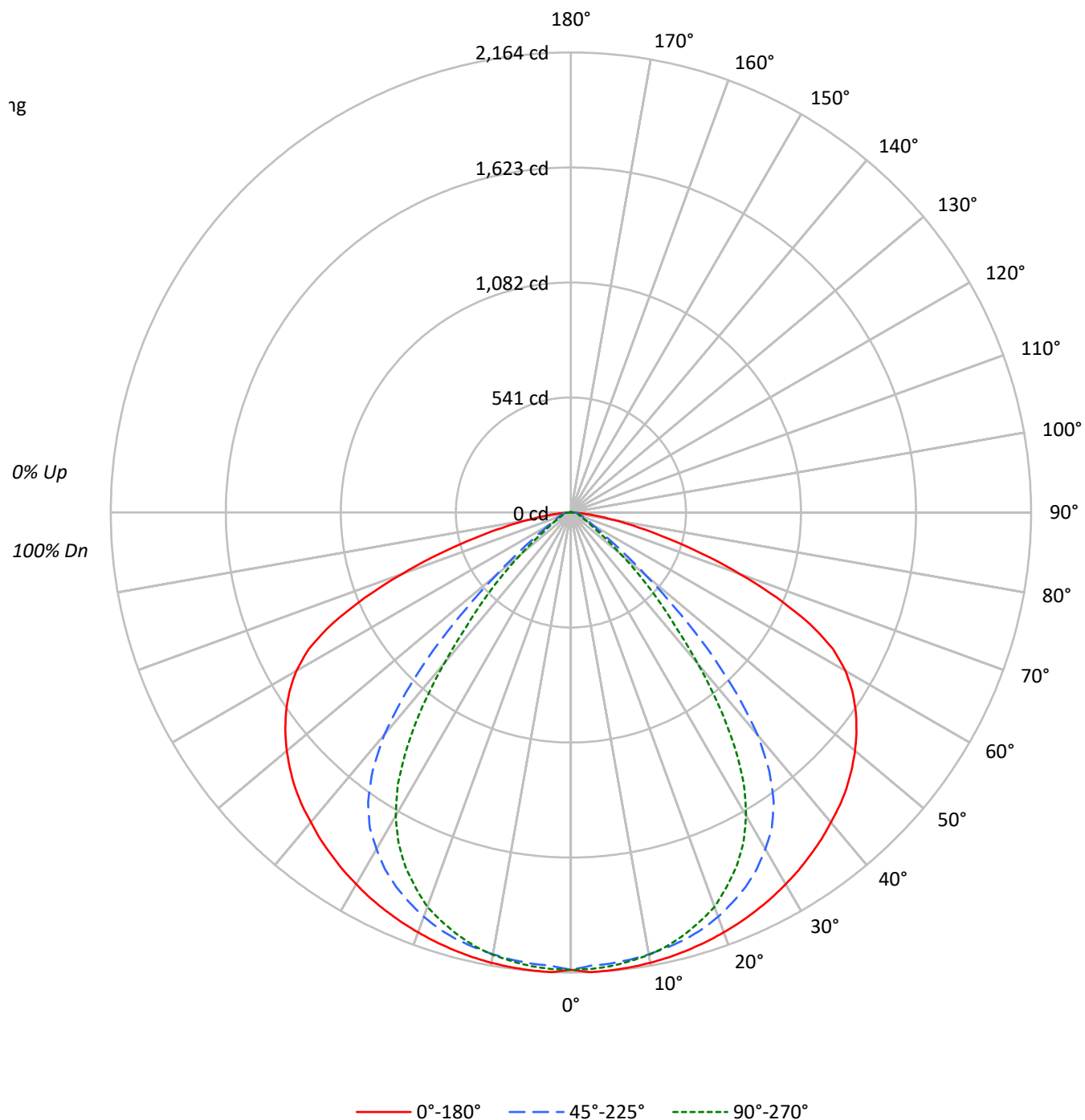
Lumens per Lamp: N/A
Luminaire Lumens: 4410.0 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.15 / 1.23
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	105	102	99	100	98	96		97	95	93		93
2	103	96	90	85	100	94	89	84	91	86	82		87	84	81		84
3	95	86	79	74	93	85	78	73	82	76	72		79	74	71		77
4	88	78	70	65	86	77	70	64	74	68	63		72	67	62		70
5	82	71	63	57	80	70	62	57	68	61	56		66	60	55		64
6	76	64	56	51	74	63	56	51	62	55	50		60	54	50		59
7	71	59	51	46	69	58	51	45	57	50	45		55	49	45		54
8	66	54	47	41	65	54	46	41	52	46	41		51	45	41		50
9	62	50	43	38	61	50	42	37	48	42	37		47	41	37		46
10	59	46	39	34	57	46	39	34	45	39	34		44	38	34		43

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10926	10926	10926
5°	11022	10858	10922
10°	11091	10882	10898
15°	11201	10930	10816
20°	11360	10938	10671
25°	11572	10891	10311
30°	11841	10721	9663
35°	12179	10308	8307
40°	12613	9053	6140
45°	13168	6533	4130
50°	13780	3649	2464
55°	14484	1887	1349
60°	15152	1227	956
65°	14893	1008	758
70°	12561	928	707
75°	9240	946	759
80°	6162	1114	956
85°	3362	1806	1457

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 62.5°

Luminance: 15281 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.3	4.6
10°-20°	590.3	13.4
20°-30°	897.9	20.4
30°-40°	1025.5	23.3
40°-50°	827.3	18.8
50°-60°	452.9	10.3
60°-70°	238.8	5.4
70°-80°	117.1	2.7
80°-90°	41.2	0.9
90°-100°	8.9	0.2
100°-110°	1.2	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°	1692.5	38.4
0°-40°	2718.0	61.6
0°-60°	3998.2	90.7
0°-90°	4395.3	99.7
90°-120°	10.8	0.2
90°-150°	13.1	0.3
90°-180°	15.0	0.3
0°-180°	4410.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2151	2151	2151	2151	2151	
5°	2162	2155	2130	2149	2142	206
15°	2130	2117	2079	2075	2057	603
25°	2065	2035	1944	1878	1840	954
35°	1964	1882	1663	1436	1340	1232
45°	1833	1575	910	622	575	1415
55°	1636	673	213	165	152	1459
65°	1239	155	84	68	63	1199
75°	471	88	48	40	39	520
85°	58	46	31	28	25	80
90°	2	24	19	17	16	4
95°	2	3	6	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°	2151.3	2151.3	2151.3	2151.3	2151.3
2.5°	2164.4	2158.4	2134.0	2154.9	2148.9
5°	2162.0	2155.4	2129.9	2148.9	2142.4
7.5°	2157.8	2149.5	2121.5	2138.8	2128.7
10°	2150.7	2142.4	2110.2	2123.9	2113.2
12.5°	2142.4	2131.0	2095.3	2102.5	2088.8
15°	2130.4	2117.4	2078.7	2075.1	2057.2
17.5°	2117.4	2101.3	2054.3	2038.8	2017.3
20°	2101.9	2082.2	2023.9	1993.5	1974.5
22.5°	2084.6	2059.0	1985.8	1939.4	1909.6
25°	2065.0	2035.2	1943.5	1877.5	1840.0
27.5°	2044.1	2003.7	1892.3	1805.4	1754.8
30°	2019.1	1970.3	1828.1	1710.8	1647.7
32.5°	1994.1	1928.7	1759.0	1588.8	1513.8
35°	1964.4	1881.6	1662.6	1436.4	1339.9
37.5°	1936.4	1825.1	1532.2	1245.3	1141.7
40°	1902.5	1758.4	1365.5	1025.6	926.2
42.5°	1870.3	1681.0	1149.5	813.7	727.4
45°	1833.4	1575.1	909.6	621.5	575.0
47.5°	1790.6	1430.4	661.3	462.5	433.4
50°	1744.1	1231.6	461.9	335.7	311.9
52.5°	1692.9	963.1	311.3	233.3	220.2
55°	1635.8	673.2	213.1	164.9	152.4
57.5°	1569.7	438.1	154.8	124.4	116.1
60°	1491.7	279.8	120.8	98.8	94.1
62.5°	1389.3	196.4	99.4	81.6	77.4
65°	1239.3	155.4	83.9	67.9	63.1
67.5°	1049.4	131.6	72.0	57.1	54.2
70°	845.9	114.3	62.5	49.4	47.6
72.5°	650.0	100.0	54.2	44.0	42.9
75°	470.9	87.5	48.2	40.5	38.7
77.5°	326.2	75.6	42.9	36.3	35.1
80°	210.7	65.5	38.1	33.3	32.7
82.5°	120.8	54.8	34.5	32.1	31.5
85°	57.7	45.8	31.0	28.0	25.0
87.5°	18.5	33.9	24.4	21.4	19.0
90°	2.4	23.8	19.0	16.7	15.5
92.5°	2.4	13.1	13.7	13.7	13.1
95°	1.8	3.0	6.5	10.1	9.5
97.5°	1.8	1.2	4.2	7.1	7.1
100°	1.2	0.6	1.8	4.8	4.8
102.5°	1.2	0.6	0.6	3.0	3.0
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	2.4	1.8
157.5°	1.2	1.2	1.8	2.4	1.8
160°	1.2	1.8	2.4	2.4	1.8
162.5°	1.2	1.8	2.4	2.4	2.4
165°	1.2	1.8	2.4	2.4	2.4
167.5°	1.8	1.8	2.4	3.0	2.4
170°	1.8	1.8	2.4	3.0	2.4
172.5°	1.8	1.8	2.4	3.0	2.4
175°	1.8	1.8	2.4	3.0	2.4
177.5°	1.8	1.8	2.4	3.0	3.0
180°	2.4	2.4	2.4	2.4	2.4

(END OF REPORT)