

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: P895282

Luminaire Tested: 8TMB-SC3-A-UNV-CC83-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895282
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-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTIC, 80CRI, 5000K CCT, LOW lumen settir
Light Source: -
Ballast/Driver: -

Summary

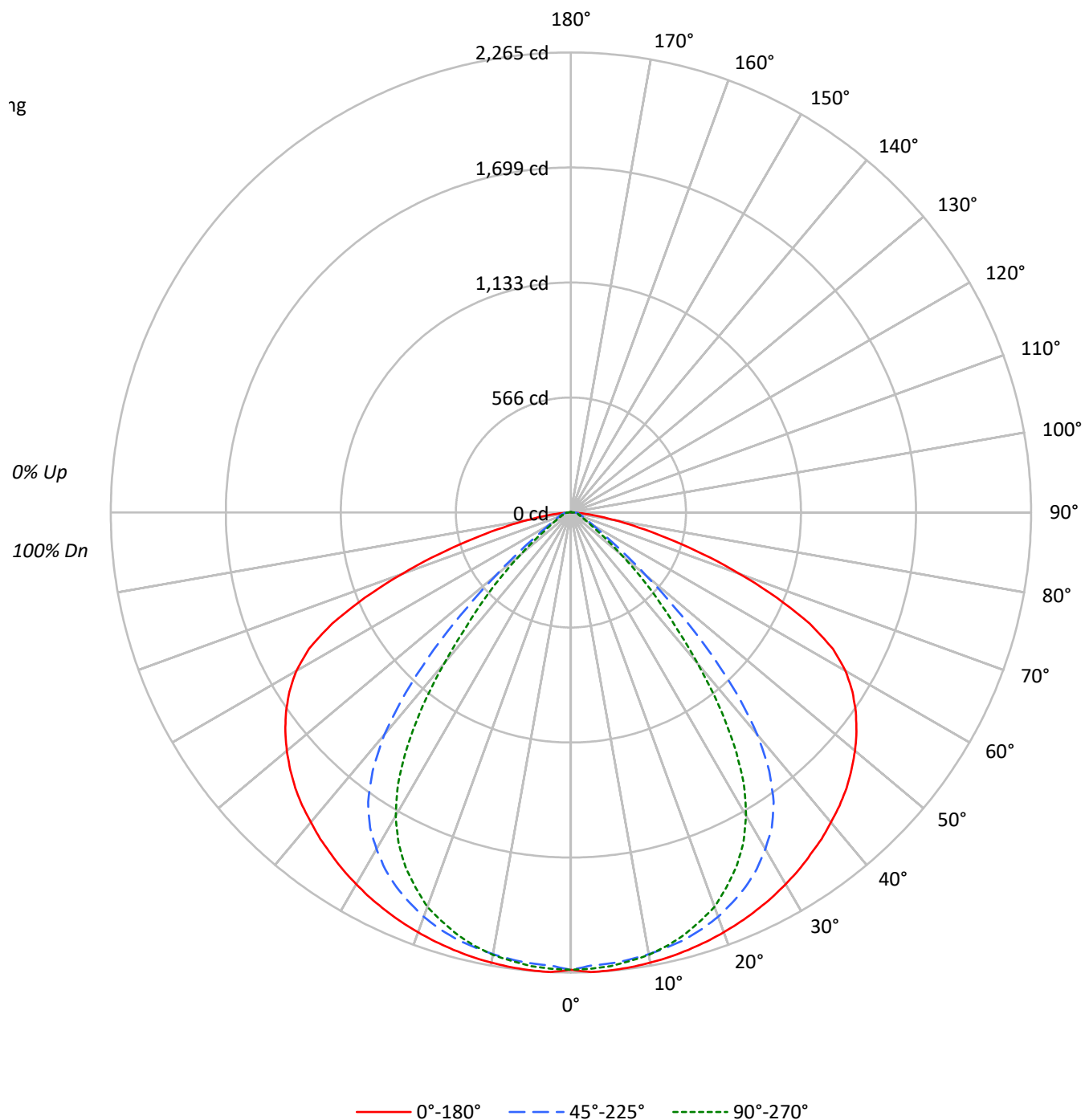
Lumens per Lamp: N/A
Luminaire Lumens: 4614.9 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.15 / 1.23
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

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°	11434	11434	11434
5°	11534	11363	11429
10°	11607	11388	11404
15°	11722	11437	11320
20°	11888	11447	11168
25°	12110	11397	10790
30°	12391	11219	10112
35°	12745	10787	8694
40°	13199	9474	6426
45°	13780	6836	4322
50°	14421	3819	2579
55°	15157	1975	1412
60°	15857	1285	999
65°	15585	1055	793
70°	13144	971	739
75°	9668	991	795
80°	6449	1167	1003
85°	3520	1888	1527

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 62.5°

Luminance: 15991 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.8	4.6
10°-20°	617.7	13.4
20°-30°	939.7	20.4
30°-40°	1073.2	23.3
40°-50°	865.8	18.8
50°-60°	473.9	10.3
60°-70°	249.9	5.4
70°-80°	122.5	2.7
80°-90°	43.2	0.9
90°-100°	9.3	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°	1771.2	38.4
0°-40°	2844.4	61.6
0°-60°	4184.1	90.7
0°-90°	4599.6	99.7
90°-120°	11.3	0.2
90°-150°	13.6	0.3
90°-180°	15.0	0.3
0°-180°	4614.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2251	2251	2251	2251	2251	
5°	2262	2256	2229	2249	2242	216
15°	2230	2216	2175	2172	2153	631
25°	2161	2130	2034	1965	1926	998
35°	2056	1969	1740	1503	1402	1290
45°	1919	1648	952	650	602	1481
55°	1712	704	223	173	160	1527
65°	1297	163	88	71	66	1254
75°	493	92	50	42	40	544
85°	60	48	32	29	26	83
90°	2	25	20	17	16	4
95°	2	3	7	11	10	2
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°	2251.3	2251.3	2251.3	2251.3	2251.3
2.5°	2265.0	2258.8	2233.2	2255.0	2248.8
5°	2262.5	2255.6	2228.9	2248.8	2241.9
7.5°	2258.1	2249.4	2220.1	2238.2	2227.6
10°	2250.7	2241.9	2208.3	2222.6	2211.4
12.5°	2241.9	2230.1	2192.7	2200.2	2185.9
15°	2229.5	2215.8	2175.3	2171.5	2152.9
17.5°	2215.8	2199.0	2149.7	2133.5	2111.1
20°	2199.6	2179.0	2118.0	2086.2	2066.3
22.5°	2181.5	2154.7	2078.1	2029.5	1998.4
25°	2161.0	2129.8	2033.9	1964.7	1925.5
27.5°	2139.2	2096.8	1980.3	1889.4	1836.4
30°	2113.0	2061.9	1913.0	1790.3	1724.3
32.5°	2086.8	2018.3	1840.8	1662.6	1584.1
35°	2055.7	1969.1	1739.9	1503.1	1402.2
37.5°	2026.4	1909.9	1603.4	1303.2	1194.8
40°	1990.9	1840.1	1429.0	1073.3	969.3
42.5°	1957.3	1759.2	1202.9	851.6	761.2
45°	1918.6	1648.3	951.8	650.3	601.8
47.5°	1873.8	1496.9	692.1	484.0	453.5
50°	1825.2	1288.9	483.4	351.3	326.4
52.5°	1771.6	1007.9	325.8	244.2	230.5
55°	1711.8	704.5	223.0	172.6	159.5
57.5°	1642.7	458.5	162.0	130.2	121.5
60°	1561.1	292.8	126.5	103.4	98.4
62.5°	1453.9	205.6	104.0	85.3	81.0
65°	1296.9	162.6	87.8	71.0	66.0
67.5°	1098.2	137.7	75.4	59.8	56.7
70°	885.2	119.6	65.4	51.7	49.8
72.5°	680.2	104.7	56.7	46.1	44.9
75°	492.7	91.6	50.5	42.4	40.5
77.5°	341.4	79.1	44.9	38.0	36.8
80°	220.5	68.5	39.9	34.9	34.3
82.5°	126.5	57.3	36.1	33.6	33.0
85°	60.4	48.0	32.4	29.3	26.2
87.5°	19.3	35.5	25.5	22.4	19.9
90°	2.5	24.9	19.9	17.4	16.2
92.5°	2.5	13.7	14.3	14.3	13.7
95°	1.9	3.1	6.9	10.6	10.0
97.5°	1.9	1.2	4.4	7.5	7.5
100°	1.2	0.6	1.9	5.0	5.0
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	1.9	1.2
145°	1.2	1.2	1.2	1.9	1.2
147.5°	1.2	1.2	1.9	1.9	1.2
150°	1.2	1.2	1.9	1.9	1.2
152.5°	1.2	1.2	1.9	1.9	1.9
155°	1.2	1.2	1.9	2.5	1.9
157.5°	1.2	1.2	1.9	2.5	1.9
160°	1.2	1.9	2.5	2.5	1.9
162.5°	1.2	1.9	2.5	2.5	2.5
165°	1.2	1.9	2.5	2.5	2.5
167.5°	1.9	1.9	2.5	3.1	2.5
170°	1.9	1.9	2.5	3.1	2.5
172.5°	1.9	1.9	2.5	3.1	2.5
175°	1.9	1.9	2.5	3.1	2.5
177.5°	1.9	1.9	2.5	3.1	3.1
180°	2.5	2.5	2.5	2.5	2.5

(END OF REPORT)