

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: P895285

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895285
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-MID-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTIC, 80CRI, 5000K CCT, MID lumen settin
Light Source: -
Ballast/Driver: -

Summary

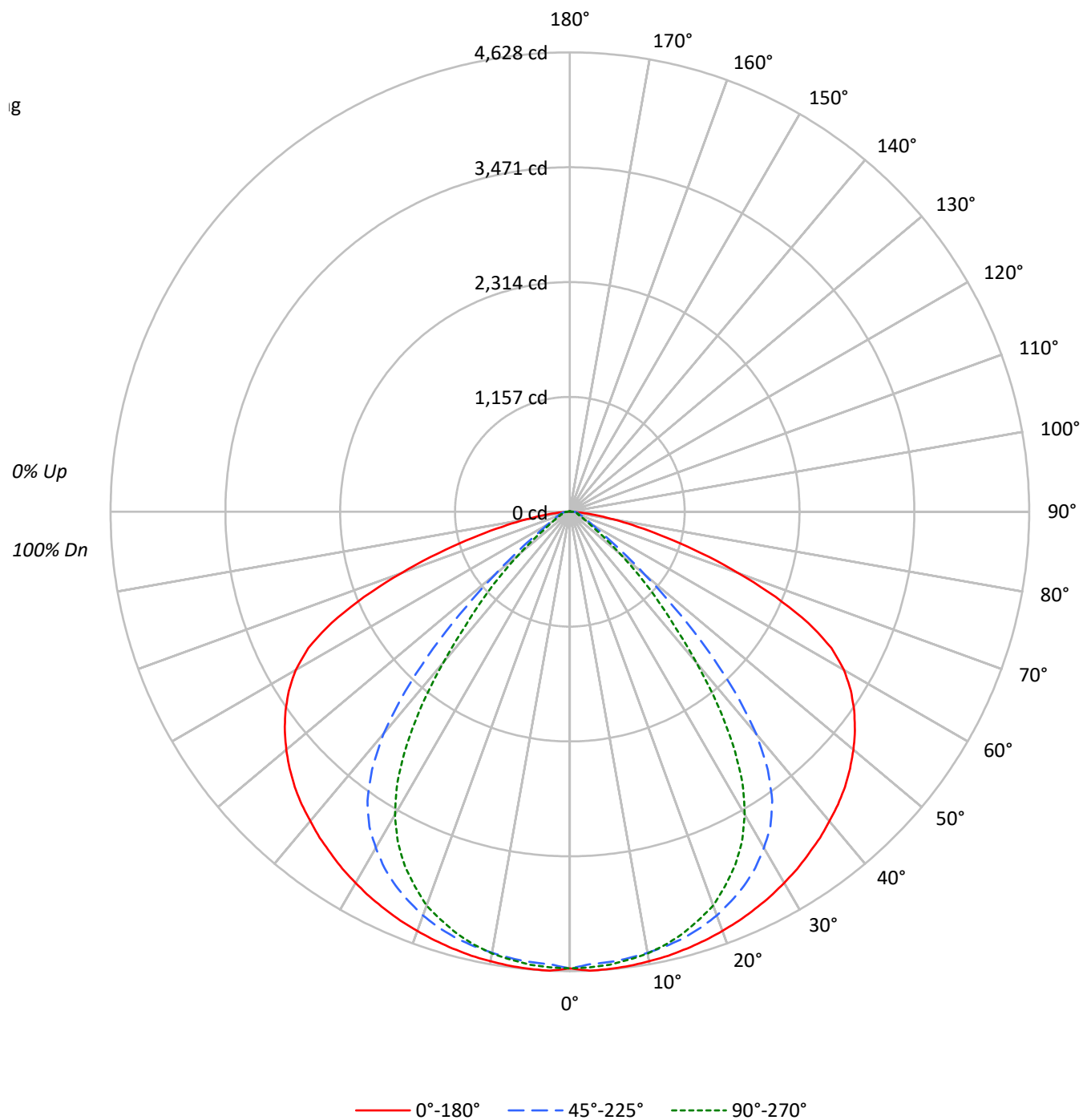
Lumens per Lamp: N/A
Luminaire Lumens: 9430.0 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Spacing Criteria (0/90/45): 1.41 / 1.15 / 1.23
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

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
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°	23363	23363	23363
5°	23569	23218	23354
10°	23717	23270	23303
15°	23953	23370	23129
20°	24291	23390	22819
25°	24744	23289	22047
30°	25320	22924	20662
35°	26043	22041	17764
40°	26971	19358	13131
45°	28158	13969	8831
50°	29467	7804	5270
55°	30971	4035	2886
60°	32400	2625	2043
65°	31847	2157	1621
70°	26858	1985	1512
75°	19756	2023	1623
80°	13179	2384	2047
85°	7197	3858	3118

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 62.5°

Luminance: 32676 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.8	4.6
10°-20°	1262.3	13.4
20°-30°	1920.1	20.4
30°-40°	2192.9	23.3
40°-50°	1769.1	18.8
50°-60°	968.4	10.3
60°-70°	510.6	5.4
70°-80°	250.3	2.7
80°-90°	88.2	0.9
90°-100°	19.0	0.2
100°-110°	2.6	0.0
110°-120°	1.6	0.0
120°-130°	1.5	0.0
130°-140°	1.5	0.0
140°-150°	1.8	0.0
150°-160°	1.6	0.0
160°-170°	1.3	0.0
170°-180°	0.5	0.0
0°-30°	3619.2	38.4
0°-40°	5812.0	61.6
0°-60°	8549.5	90.7
0°-90°	9398.6	99.7
90°-120°	23.2	0.2
90°-150°	28.0	0.3
90°-180°	31.0	0.3
0°-180°	9430.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4600	4600	4600	4600	4600	
5°	4623	4609	4554	4595	4581	440
15°	4556	4528	4445	4437	4399	1289
25°	4416	4352	4156	4015	3934	2040
35°	4200	4024	3555	3071	2865	2635
45°	3920	3368	1945	1329	1230	3026
55°	3498	1440	456	353	326	3121
65°	2650	332	180	145	135	2563
75°	1007	187	103	87	83	1112
85°	124	98	66	60	54	170
90°	5	51	41	36	33	8
95°	4	6	14	22	20	3
105°	1	0	1	2	2	2
115°	1	1	1	2	1	1
125°	1	1	1	2	1	1
135°	1	1	2	2	1	1
145°	2	2	2	4	2	2
155°	2	2	4	5	4	1
165°	2	4	5	5	5	1
175°	4	4	5	6	5	0
180°	5	5	5	5	5	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4600.1	4600.1	4600.1	4600.1	4600.1
2.5°	4628.1	4615.4	4563.2	4607.8	4595.0
5°	4623.0	4609.0	4554.3	4595.0	4581.0
7.5°	4614.1	4596.3	4536.5	4573.4	4551.8
10°	4598.9	4581.0	4512.3	4541.6	4518.7
12.5°	4581.0	4556.9	4480.5	4495.8	4466.5
15°	4555.6	4527.6	4444.8	4437.2	4399.0
17.5°	4527.6	4493.2	4392.7	4359.6	4313.7
20°	4494.5	4452.5	4327.7	4262.8	4222.1
22.5°	4457.6	4402.8	4246.3	4147.0	4083.3
25°	4415.6	4351.9	4155.9	4014.6	3934.4
27.5°	4371.0	4284.5	4046.4	3860.6	3752.4
30°	4317.6	4213.2	3909.0	3658.2	3523.3
32.5°	4264.1	4124.1	3761.3	3397.3	3236.9
35°	4200.5	4023.5	3555.1	3071.4	2865.2
37.5°	4140.6	3902.6	3276.4	2662.8	2441.4
40°	4068.1	3760.0	2919.9	2193.1	1980.6
42.5°	3999.3	3594.6	2457.9	1740.0	1555.4
45°	3920.4	3368.0	1944.9	1328.9	1229.6
47.5°	3828.8	3058.7	1414.2	989.0	926.6
50°	3729.5	2633.6	987.7	717.9	667.0
52.5°	3620.0	2059.5	665.7	499.0	471.0
55°	3497.8	1439.6	455.7	352.6	325.9
57.5°	3356.5	936.8	330.9	266.0	248.2
60°	3189.8	598.2	258.4	211.3	201.1
62.5°	2970.9	420.0	212.6	174.4	165.5
65°	2650.1	332.2	179.5	145.1	134.9
67.5°	2244.1	281.3	154.0	122.2	115.8
70°	1808.7	244.4	133.7	105.6	101.8
72.5°	1390.0	213.8	115.8	94.2	91.6
75°	1006.8	187.1	103.1	86.6	82.7
77.5°	697.5	161.7	91.6	77.6	75.1
80°	450.6	140.0	81.5	71.3	70.0
82.5°	258.4	117.1	73.8	68.7	67.5
85°	123.5	98.0	66.2	59.8	53.5
87.5°	39.5	72.6	52.2	45.8	40.7
90°	5.1	50.9	40.7	35.6	33.1
92.5°	5.1	28.0	29.3	29.3	28.0
95°	3.8	6.4	14.0	21.6	20.4
97.5°	3.8	2.5	8.9	15.3	15.3
100°	2.5	1.3	3.8	10.2	10.2
102.5°	2.5	1.3	1.3	6.4	6.4
105°	1.3	0.0	1.3	2.5	2.5
107.5°	1.3	1.3	1.3	2.5	1.3
110°	1.3	1.3	1.3	2.5	1.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	1.3	1.3	2.5	1.3
115°	1.3	1.3	1.3	2.5	1.3
117.5°	1.3	1.3	1.3	2.5	1.3
120°	1.3	1.3	1.3	2.5	1.3
122.5°	1.3	1.3	1.3	2.5	1.3
125°	1.3	1.3	1.3	2.5	1.3
127.5°	1.3	1.3	1.3	2.5	1.3
130°	1.3	1.3	2.5	2.5	1.3
132.5°	1.3	1.3	2.5	2.5	1.3
135°	1.3	1.3	2.5	2.5	1.3
137.5°	1.3	1.3	2.5	2.5	2.5
140°	2.5	1.3	2.5	2.5	2.5
142.5°	2.5	2.5	2.5	3.8	2.5
145°	2.5	2.5	2.5	3.8	2.5
147.5°	2.5	2.5	3.8	3.8	2.5
150°	2.5	2.5	3.8	3.8	2.5
152.5°	2.5	2.5	3.8	3.8	3.8
155°	2.5	2.5	3.8	5.1	3.8
157.5°	2.5	2.5	3.8	5.1	3.8
160°	2.5	3.8	5.1	5.1	3.8
162.5°	2.5	3.8	5.1	5.1	5.1
165°	2.5	3.8	5.1	5.1	5.1
167.5°	3.8	3.8	5.1	6.4	5.1
170°	3.8	3.8	5.1	6.4	5.1
172.5°	3.8	3.8	5.1	6.4	5.1
175°	3.8	3.8	5.1	6.4	5.1
177.5°	3.8	3.8	5.1	6.4	6.4
180°	5.1	5.1	5.1	5.1	5.1

(END OF REPORT)