

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: P895310

Luminaire Tested: 8TMB-SC3-ACL-UNV-CC93-MID-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-15)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-ACL-UNV-CC93-MID-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 3500K CC
MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

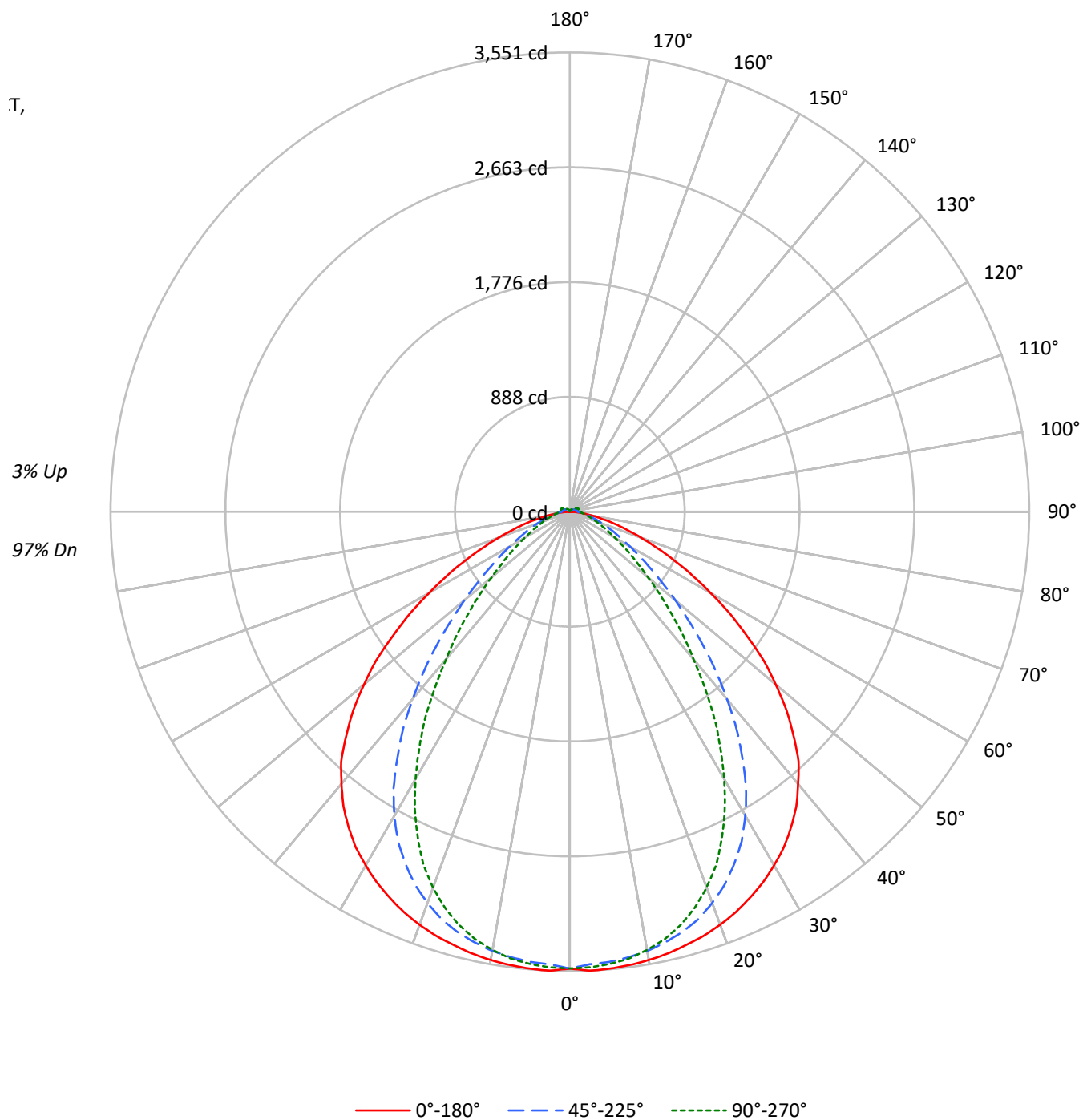
Lumens per Lamp: N/A
Luminaire Lumens: 7243.0 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.08')
CIE Type: Direct

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	118	118	118	118	115	115	115	115	110	110	110		104	104	104		100
1	110	106	102	99	107	103	100	97	99	96	93		94	92	90		90
2	101	94	88	84	99	92	87	82	88	84	80		85	81	78		82
3	94	85	77	72	91	83	76	71	80	74	69		77	72	68		74
4	87	76	68	62	84	75	67	62	72	66	61		69	64	60		67
5	80	69	61	55	78	68	60	55	65	59	54		63	58	53		61
6	75	63	55	49	73	62	54	49	60	53	48		58	52	47		56
7	70	57	50	44	68	57	49	44	55	48	43		53	47	43		52
8	65	53	45	40	64	52	45	40	51	44	39		49	43	39		48
9	61	49	41	36	60	48	41	36	47	40	36		46	40	35		45
10	58	45	38	33	56	45	38	33	44	37	33		43	37	32		42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17932	17932	17932
5°	18062	17456	17417
10°	18111	17088	16806
15°	18183	16654	16041
20°	18290	16052	14994
25°	18363	15211	13601
30°	18402	14051	11850
35°	18347	12426	9912
40°	18047	10504	7801
45°	17381	8486	6048
50°	16213	6590	4538
55°	14548	5050	3471
60°	12537	3887	2644
65°	10496	3071	2102
70°	8445	2469	1717
75°	6790	1994	1462
80°	5061	1651	1279
85°	3644	1409	1178

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17381 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.4	4.6
10°-20°	952.7	13.2
20°-30°	1389.0	19.2
30°-40°	1492.3	20.6
40°-50°	1242.0	17.1
50°-60°	830.7	11.5
60°-70°	475.5	6.6
70°-80°	236.4	3.3
80°-90°	96.7	1.3
90°-100°	56.1	0.8
100°-110°	49.5	0.7
110°-120°	36.4	0.5
120°-130°	23.4	0.3
130°-140°	13.9	0.2
140°-150°	7.8	0.1
150°-160°	3.9	0.1
160°-170°	1.7	0.0
170°-180°	0.4	0.0
0°-30°	2676.1	36.9
0°-40°	4168.5	57.6
0°-60°	6241.2	86.2
0°-90°	7049.9	97.3
90°-120°	142.0	2.0
90°-150°	187.2	2.6
90°-180°	193.0	2.7
0°-180°	7243.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3531	3531	3531	3531	3531	
5°	3546	3535	3493	3522	3510	338
15°	3468	3444	3362	3337	3307	980
25°	3293	3215	3004	2853	2782	1519
35°	2981	2764	2326	2039	1950	1862
45°	2445	2032	1452	1175	1106	1880
55°	1668	1203	757	598	568	1494
65°	893	606	381	309	292	893
75°	360	262	188	167	162	386
85°	70	78	88	92	93	82
90°	10	33	60	71	73	10
95°	15	33	59	71	73	12
105°	10	27	52	69	72	11
115°	5	15	41	57	62	5
125°	3	10	28	41	45	2
135°	2	8	18	28	31	2
145°	2	6	12	18	22	1
155°	2	5	8	11	14	1
165°	3	4	6	7	9	1
175°	3	3	4	4	4	0
180°	3	3	3	3	3	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3530.8	3530.8	3530.8	3530.8	3530.8
2.5°	3551.4	3542.1	3501.9	3533.9	3524.6
5°	3546.2	3534.9	3492.7	3521.5	3510.2
7.5°	3534.9	3522.5	3474.1	3496.8	3484.4
10°	3518.4	3503.0	3447.4	3458.7	3439.1
12.5°	3497.8	3478.2	3409.2	3406.2	3384.5
15°	3467.9	3444.3	3361.9	3337.1	3307.3
17.5°	3437.1	3402.0	3301.1	3250.6	3209.4
20°	3396.9	3350.5	3217.7	3142.5	3091.0
22.5°	3350.5	3287.7	3123.9	3008.6	2955.0
25°	3292.9	3214.6	3004.5	2853.1	2782.0
27.5°	3231.1	3127.0	2874.7	2675.9	2594.5
30°	3156.9	3028.1	2713.0	2474.0	2386.5
32.5°	3078.6	2902.5	2535.8	2261.8	2166.1
35°	2980.8	2764.5	2325.7	2039.4	1949.8
37.5°	2874.7	2599.7	2117.6	1811.7	1710.8
40°	2745.9	2425.6	1889.0	1586.2	1486.3
42.5°	2618.2	2236.1	1669.6	1382.2	1295.7
45°	2445.2	2032.2	1452.3	1175.2	1106.2
47.5°	2271.1	1813.8	1244.2	1007.3	939.3
50°	2077.5	1599.6	1061.9	845.6	789.0
52.5°	1889.0	1399.7	896.1	714.8	666.4
55°	1667.5	1203.0	757.0	598.4	567.5
57.5°	1467.7	1020.7	638.6	506.8	477.9
60°	1256.6	865.2	534.6	428.5	401.7
62.5°	1071.2	727.2	450.1	363.6	345.0
65°	893.0	605.6	381.1	309.0	292.5
67.5°	729.2	505.7	321.4	263.7	250.3
70°	585.0	409.9	270.9	224.5	215.3
72.5°	460.4	329.6	225.6	193.6	185.4
75°	359.5	261.6	188.5	166.9	161.7
77.5°	259.6	203.9	157.6	143.2	140.1
80°	183.3	154.5	129.8	123.6	121.5
82.5°	121.5	112.3	107.1	107.1	106.1
85°	70.0	78.3	87.5	91.7	92.7
87.5°	36.0	52.5	70.0	78.3	79.3
90°	10.3	33.0	59.7	71.1	73.1
92.5°	15.4	33.0	58.7	71.1	73.1
95°	15.4	33.0	58.7	71.1	73.1
97.5°	14.4	31.9	58.7	71.1	73.1
100°	13.4	29.9	57.7	71.1	73.1
102.5°	11.3	28.8	55.6	70.0	73.1
105°	10.3	26.8	52.5	69.0	72.1
107.5°	9.3	22.7	49.4	65.9	70.0
110°	7.2	19.6	47.4	62.8	68.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.2	17.5	44.3	59.7	64.9
115°	5.1	15.4	41.2	56.6	61.8
117.5°	4.1	14.4	37.1	52.5	57.7
120°	3.1	13.4	34.0	49.4	53.6
122.5°	3.1	12.4	29.9	45.3	49.4
125°	3.1	10.3	27.8	41.2	45.3
127.5°	2.1	9.3	24.7	37.1	41.2
130°	2.1	9.3	22.7	34.0	37.1
132.5°	2.1	8.2	20.6	30.9	34.0
135°	2.1	8.2	18.5	27.8	30.9
137.5°	2.1	7.2	16.5	25.7	28.8
140°	2.1	7.2	15.4	22.7	25.7
142.5°	2.1	6.2	13.4	21.6	23.7
145°	2.1	6.2	12.4	18.5	21.6
147.5°	2.1	6.2	11.3	17.5	19.6
150°	2.1	5.1	10.3	14.4	17.5
152.5°	2.1	5.1	9.3	13.4	16.5
155°	2.1	5.1	8.2	11.3	14.4
157.5°	2.1	5.1	8.2	10.3	12.4
160°	3.1	4.1	7.2	9.3	11.3
162.5°	3.1	4.1	6.2	8.2	10.3
165°	3.1	4.1	6.2	7.2	9.3
167.5°	3.1	4.1	5.1	6.2	7.2
170°	3.1	3.1	5.1	5.1	5.1
172.5°	3.1	3.1	4.1	5.1	4.1
175°	3.1	3.1	4.1	4.1	4.1
177.5°	3.1	3.1	4.1	4.1	4.1
180°	3.1	3.1	3.1	3.1	3.1

(END OF REPORT)