

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: P895328

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-14)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-AOL-UNV-CC93-MID-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 900
3500K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

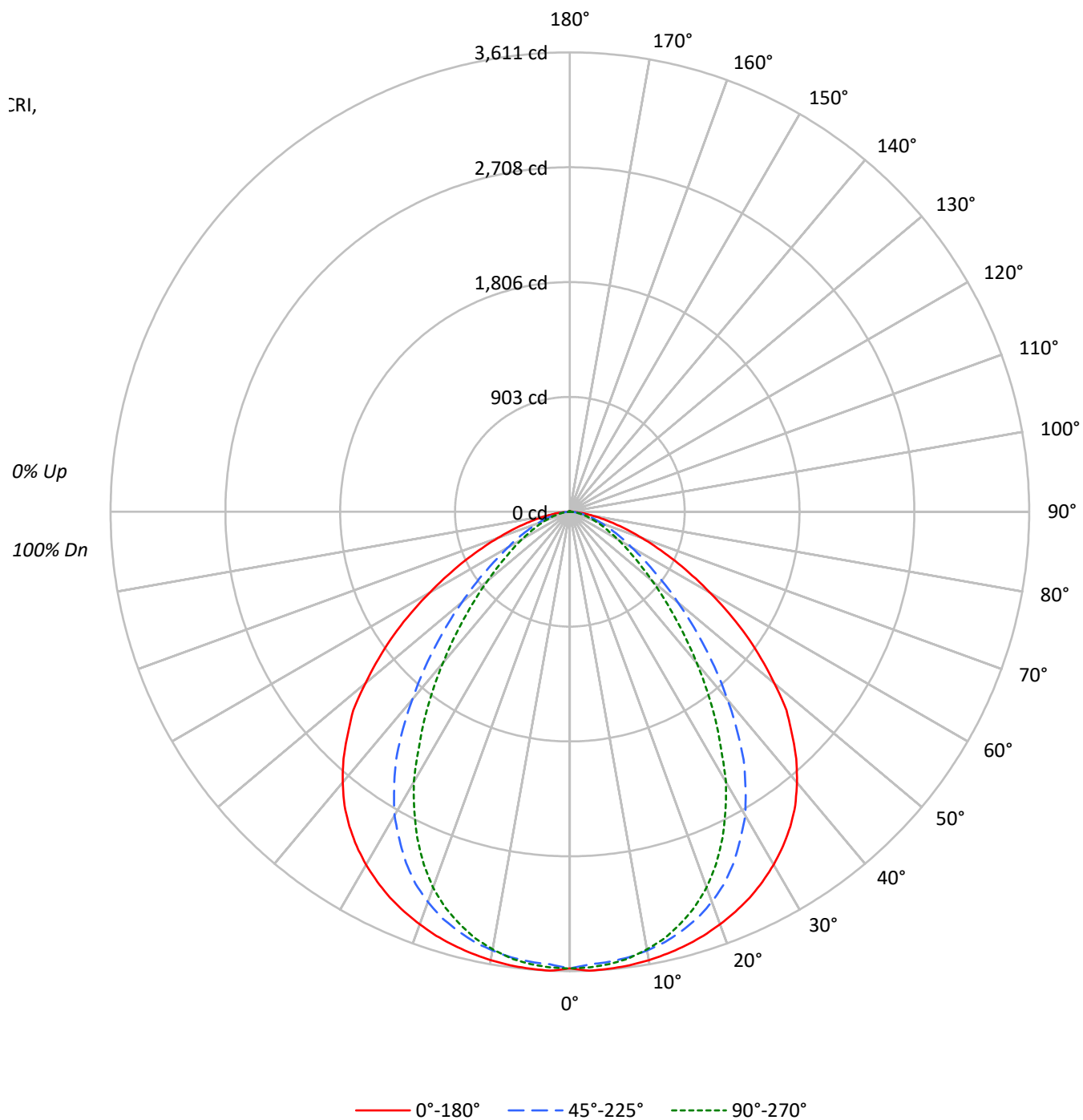
Lumens per Lamp: N/A
Luminaire Lumens: 7172.1 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

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	104	101	98	100	98	95		96	94	92		93
2	102	95	89	85	100	93	88	84	90	85	82		87	83	80		84
3	94	85	78	73	92	84	77	72	81	75	71		78	73	70		76
4	87	77	69	63	85	76	68	63	73	67	62		71	66	61		69
5	81	70	62	56	79	69	61	55	66	60	55		65	59	54		63
6	75	63	55	50	74	63	55	49	61	54	49		59	53	49		58
7	70	58	50	45	69	57	50	44	56	49	44		54	48	44		53
8	66	53	46	40	64	53	45	40	51	45	40		50	44	40		49
9	62	49	42	37	60	49	42	37	48	41	36		47	41	36		46
10	58	46	38	34	57	45	38	33	44	38	33		43	37	33		43

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18234	18234	18234
5°	18383	18104	18199
10°	18457	18058	18011
15°	18552	17930	17632
20°	18653	17640	16988
25°	18757	17066	15889
30°	18790	16169	14387
35°	18729	14770	12375
40°	18416	12782	10283
45°	17731	10741	8322
50°	16592	8748	6665
55°	14992	7031	5344
60°	12930	5723	4426
65°	10942	4765	3639
70°	8932	4052	3089
75°	7154	3416	2627
80°	5572	2922	2258
85°	4324	2581	2040

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17731 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.0	4.7
10°-20°	967.5	13.5
20°-30°	1410.2	19.7
30°-40°	1520.0	21.2
40°-50°	1274.3	17.8
50°-60°	862.7	12.0
60°-70°	491.9	6.9
70°-80°	225.0	3.1
80°-90°	58.9	0.8
90°-100°	7.3	0.1
100°-110°	4.9	0.1
110°-120°	2.7	0.0
120°-130°	1.6	0.0
130°-140°	1.5	0.0
140°-150°	1.3	0.0
150°-160°	1.1	0.0
160°-170°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	2717.7	37.9
0°-40°	4237.7	59.1
0°-60°	6374.7	88.9
0°-90°	7150.5	99.7
90°-120°	14.9	0.2
90°-150°	19.3	0.3
90°-180°	22.0	0.3
0°-180°	7172.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3590	3590	3590	3590	3590	
5°	3606	3594	3551	3580	3570	343
15°	3528	3498	3410	3387	3353	997
25°	3347	3259	3046	2905	2835	1542
35°	3021	2793	2382	2091	1996	1886
45°	2469	2060	1495	1233	1159	1900
55°	1693	1239	794	644	604	1508
65°	910	633	396	321	303	908
75°	365	268	174	142	134	398
85°	74	63	44	37	35	87
90°	10	10	6	5	4	10
95°	15	9	5	3	3	12
105°	10	7	3	2	1	11
115°	5	4	2	1	1	5
125°	2	2	2	1	1	2
135°	1	2	2	2	1	1
145°	2	2	2	2	2	1
155°	2	2	2	3	3	1
165°	2	3	3	3	3	1
175°	3	3	3	4	4	0
180°	3	3	3	3	3	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3590.3	3590.3	3590.3	3590.3	3590.3
2.5°	3610.9	3601.6	3560.4	3594.4	3584.1
5°	3605.8	3594.4	3551.2	3580.0	3569.7
7.5°	3595.5	3581.0	3532.6	3554.3	3540.9
10°	3579.0	3561.5	3501.7	3514.1	3492.5
12.5°	3556.3	3534.7	3463.6	3460.5	3434.8
15°	3528.5	3497.6	3410.1	3387.4	3353.4
17.5°	3494.5	3455.4	3346.2	3300.9	3259.7
20°	3451.3	3400.8	3263.8	3191.7	3143.3
22.5°	3401.8	3333.9	3168.0	3052.7	3000.2
25°	3347.2	3258.7	3045.5	2905.4	2835.4
27.5°	3279.3	3168.0	2903.3	2722.1	2650.0
30°	3204.1	3063.0	2757.1	2525.4	2453.3
32.5°	3118.6	2942.5	2570.7	2313.2	2212.3
35°	3020.8	2793.1	2382.2	2090.7	1996.0
37.5°	2910.6	2637.6	2156.7	1866.2	1770.4
40°	2777.7	2453.3	1928.0	1640.7	1551.1
42.5°	2634.5	2265.8	1708.6	1426.4	1349.2
45°	2468.7	2059.8	1495.4	1232.8	1158.7
47.5°	2309.1	1851.8	1295.6	1055.7	994.9
50°	2100.0	1630.4	1107.2	894.0	843.5
52.5°	1896.1	1425.4	946.5	764.2	716.8
55°	1693.2	1239.0	794.1	643.7	603.5
57.5°	1479.0	1056.7	668.4	544.8	518.1
60°	1273.0	899.1	563.4	457.3	435.7
62.5°	1084.5	753.9	476.9	386.2	365.6
65°	910.5	633.4	396.5	321.3	302.8
67.5°	745.7	521.1	330.6	267.8	254.4
70°	601.5	422.3	272.9	220.4	208.0
72.5°	476.9	337.8	218.3	180.2	166.8
75°	364.6	267.8	174.1	142.1	133.9
77.5°	271.9	201.9	133.9	109.2	103.0
80°	190.5	146.2	99.9	82.4	77.2
82.5°	129.8	100.9	70.0	57.7	54.6
85°	74.2	62.8	44.3	37.1	35.0
87.5°	38.1	33.0	23.7	17.5	15.4
90°	10.3	10.3	6.2	5.1	4.1
92.5°	16.5	9.3	6.2	4.1	3.1
95°	15.4	9.3	5.1	3.1	3.1
97.5°	14.4	9.3	4.1	3.1	2.1
100°	13.4	8.2	4.1	2.1	2.1
102.5°	12.4	8.2	4.1	2.1	2.1
105°	10.3	7.2	3.1	2.1	1.0
107.5°	9.3	6.2	3.1	2.1	1.0
110°	7.2	5.1	3.1	2.1	1.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.2	5.1	2.1	2.1	1.0
115°	5.1	4.1	2.1	1.0	1.0
117.5°	4.1	3.1	2.1	1.0	1.0
120°	3.1	3.1	2.1	1.0	1.0
122.5°	3.1	2.1	2.1	1.0	1.0
125°	2.1	2.1	2.1	1.0	1.0
127.5°	2.1	2.1	2.1	1.0	1.0
130°	2.1	2.1	2.1	1.0	1.0
132.5°	2.1	2.1	2.1	2.1	1.0
135°	1.0	2.1	2.1	2.1	1.0
137.5°	2.1	2.1	2.1	2.1	2.1
140°	2.1	2.1	2.1	2.1	2.1
142.5°	2.1	2.1	2.1	2.1	2.1
145°	2.1	2.1	2.1	2.1	2.1
147.5°	2.1	2.1	2.1	2.1	2.1
150°	2.1	2.1	2.1	2.1	2.1
152.5°	2.1	2.1	2.1	2.1	2.1
155°	2.1	2.1	2.1	3.1	3.1
157.5°	2.1	2.1	3.1	3.1	3.1
160°	2.1	2.1	3.1	3.1	3.1
162.5°	2.1	2.1	3.1	3.1	3.1
165°	2.1	3.1	3.1	3.1	3.1
167.5°	2.1	3.1	3.1	3.1	4.1
170°	2.1	3.1	3.1	4.1	4.1
172.5°	2.1	3.1	3.1	4.1	4.1
175°	3.1	3.1	3.1	4.1	4.1
177.5°	3.1	3.1	3.1	4.1	4.1
180°	3.1	3.1	3.1	3.1	3.1

(END OF REPORT)