

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: P895311

Luminaire Tested: 8TMB-SC3-ACL-UNV-CC93-MID-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895311
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-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 4000K CC
MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

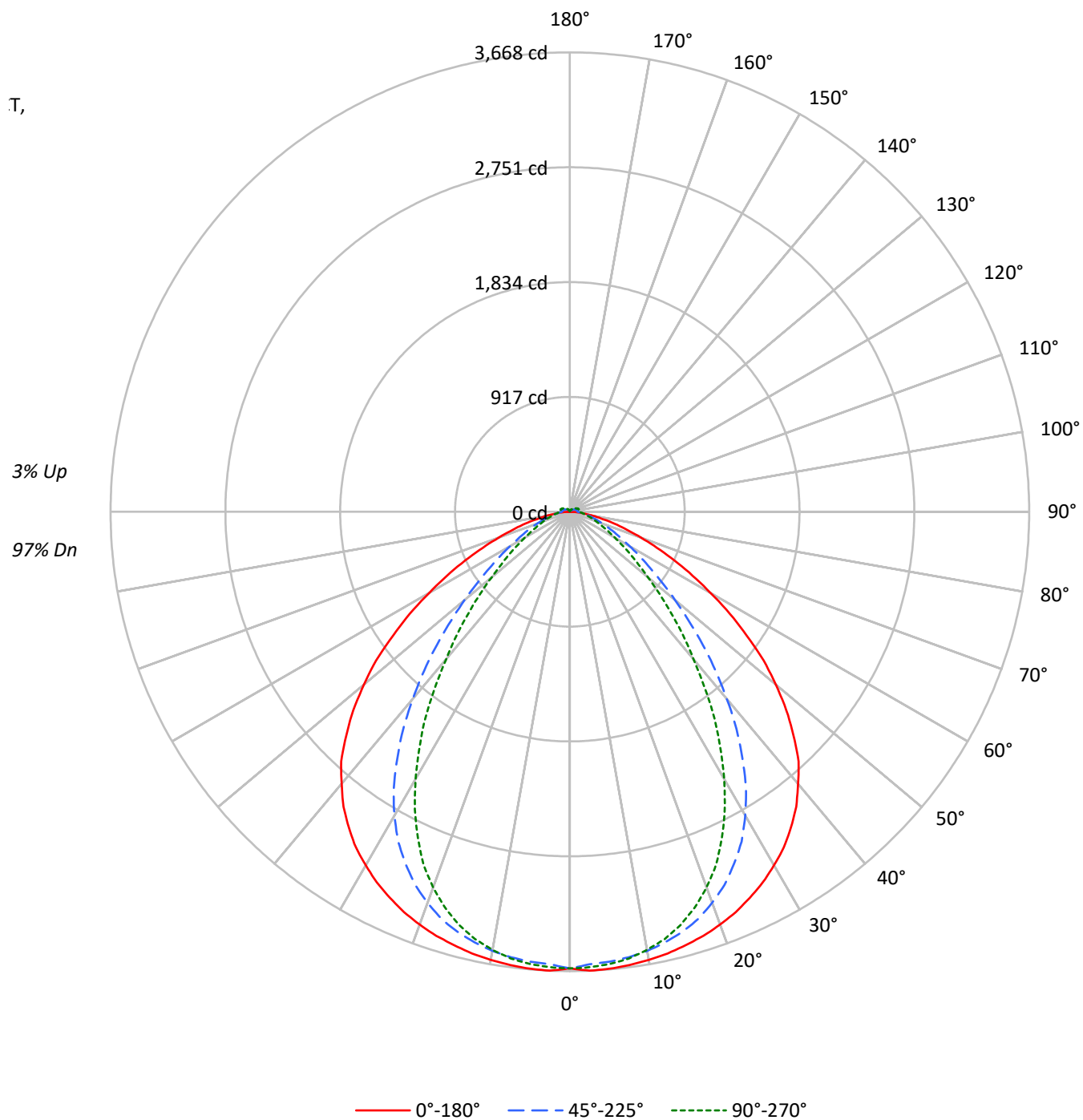
Lumens per Lamp: N/A
Luminaire Lumens: 7480.0 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.08')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	118	118	118	118	115	115	115	115	110	110	110		104	104	104		100	100	100	97
1	110	106	102	99	107	103	100	97	99	96	93		94	92	90		90	89	87	85
2	101	94	88	84	99	92	87	82	88	84	80		85	81	78		82	79	76	74
3	94	85	77	72	91	83	76	71	80	74	69		77	72	68		74	70	66	64
4	87	76	68	62	84	75	67	62	72	66	61		69	64	60		67	62	59	57
5	80	69	61	55	78	68	60	55	65	59	54		63	58	53		61	56	52	50
6	75	63	55	49	73	62	54	49	60	53	48		58	52	47		56	51	47	45
7	70	57	50	44	68	57	49	44	55	48	43		53	47	43		52	46	42	40
8	65	53	45	40	64	52	45	40	51	44	39		49	43	39		48	42	38	37
9	61	49	41	36	60	48	41	36	47	40	36		46	40	35		45	39	35	33
10	58	45	38	33	56	45	38	33	44	37	33		43	37	32		42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18518	18518	18518
5°	18654	18027	17987
10°	18704	17647	17356
15°	18778	17199	16566
20°	18888	16577	15485
25°	18964	15709	14046
30°	19005	14511	12238
35°	18947	12832	10236
40°	18637	10848	8056
45°	17950	8764	6246
50°	16743	6806	4686
55°	15024	5216	3584
60°	12947	4015	2730
65°	10840	3172	2171
70°	8722	2549	1773
75°	7011	2059	1510
80°	5227	1704	1321
85°	3764	1456	1216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17950 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.4	4.6
10°-20°	983.9	13.2
20°-30°	1434.4	19.2
30°-40°	1541.1	20.6
40°-50°	1282.7	17.1
50°-60°	857.9	11.5
60°-70°	491.1	6.6
70°-80°	244.2	3.3
80°-90°	99.9	1.3
90°-100°	58.0	0.8
100°-110°	51.1	0.7
110°-120°	37.5	0.5
120°-130°	24.1	0.3
130°-140°	14.4	0.2
140°-150°	8.1	0.1
150°-160°	4.1	0.1
160°-170°	1.7	0.0
170°-180°	0.4	0.0
0°-30°	2763.7	36.9
0°-40°	4304.9	57.6
0°-60°	6445.4	86.2
0°-90°	7280.5	97.3
90°-120°	146.7	2.0
90°-150°	193.3	2.6
90°-180°	199.0	2.7
0°-180°	7480.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3646	3646	3646	3646	3646	
5°	3662	3651	3607	3637	3625	349
15°	3581	3557	3472	3446	3416	1013
25°	3401	3320	3103	2946	2873	1568
35°	3078	2855	2402	2106	2014	1923
45°	2525	2099	1500	1214	1142	1941
55°	1722	1242	782	618	586	1543
65°	922	625	394	319	302	922
75°	371	270	195	172	167	398
85°	72	81	90	95	96	85
90°	11	34	62	73	76	10
95°	16	34	61	73	76	12
105°	11	28	54	71	74	11
115°	5	16	42	58	64	5
125°	3	11	29	42	47	3
135°	2	8	19	29	32	2
145°	2	6	13	19	22	1
155°	2	5	8	12	15	1
165°	3	4	6	7	10	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°	3646.3	3646.3	3646.3	3646.3	3646.3
2.5°	3667.6	3658.0	3616.5	3649.5	3639.9
5°	3662.3	3650.6	3607.0	3636.7	3625.0
7.5°	3650.6	3637.8	3587.8	3611.2	3598.4
10°	3633.5	3617.6	3560.2	3571.9	3551.6
12.5°	3612.3	3592.1	3520.8	3517.6	3495.3
15°	3581.4	3557.0	3471.9	3446.3	3415.5
17.5°	3549.5	3513.3	3409.1	3357.0	3314.4
20°	3508.0	3460.2	3323.0	3245.3	3192.1
22.5°	3460.2	3395.3	3226.2	3107.0	3051.7
25°	3400.6	3319.8	3102.8	2946.4	2873.0
27.5°	3336.8	3229.3	2968.7	2763.5	2679.4
30°	3260.2	3127.2	2801.7	2555.0	2464.6
32.5°	3179.4	2997.5	2618.8	2335.9	2236.9
35°	3078.3	2854.9	2401.8	2106.1	2013.6
37.5°	2968.7	2684.7	2186.9	1871.0	1766.8
40°	2835.8	2505.0	1950.8	1638.1	1534.9
42.5°	2703.9	2309.3	1724.2	1427.5	1338.1
45°	2525.2	2098.6	1499.8	1213.7	1142.4
47.5°	2345.4	1873.1	1284.9	1040.3	970.1
50°	2145.5	1651.9	1096.7	873.3	814.8
52.5°	1950.8	1445.5	925.4	738.2	688.2
55°	1722.1	1242.4	781.8	618.0	586.1
57.5°	1515.8	1054.1	659.5	523.3	493.5
60°	1297.7	893.5	552.1	442.5	414.8
62.5°	1106.2	751.0	464.8	375.5	356.3
65°	922.2	625.4	393.6	319.1	302.1
67.5°	753.1	522.3	331.9	272.3	258.5
70°	604.2	423.3	279.7	231.9	222.3
72.5°	475.5	340.4	232.9	200.0	191.5
75°	371.2	270.2	194.7	172.3	167.0
77.5°	268.0	210.6	162.7	147.9	144.7
80°	189.3	159.6	134.0	127.6	125.5
82.5°	125.5	115.9	110.6	110.6	109.6
85°	72.3	80.8	90.4	94.7	95.7
87.5°	37.2	54.2	72.3	80.8	81.9
90°	10.6	34.0	61.7	73.4	75.5
92.5°	16.0	34.0	60.6	73.4	75.5
95°	16.0	34.0	60.6	73.4	75.5
97.5°	14.9	33.0	60.6	73.4	75.5
100°	13.8	30.8	59.6	73.4	75.5
102.5°	11.7	29.8	57.4	72.3	75.5
105°	10.6	27.7	54.2	71.3	74.5
107.5°	9.6	23.4	51.1	68.1	72.3
110°	7.4	20.2	48.9	64.9	70.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.4	18.1	45.7	61.7	67.0
115°	5.3	16.0	42.5	58.5	63.8
117.5°	4.3	14.9	38.3	54.2	59.6
120°	3.2	13.8	35.1	51.1	55.3
122.5°	3.2	12.8	30.8	46.8	51.1
125°	3.2	10.6	28.7	42.5	46.8
127.5°	2.1	9.6	25.5	38.3	42.5
130°	2.1	9.6	23.4	35.1	38.3
132.5°	2.1	8.5	21.3	31.9	35.1
135°	2.1	8.5	19.1	28.7	31.9
137.5°	2.1	7.4	17.0	26.6	29.8
140°	2.1	7.4	16.0	23.4	26.6
142.5°	2.1	6.4	13.8	22.3	24.5
145°	2.1	6.4	12.8	19.1	22.3
147.5°	2.1	6.4	11.7	18.1	20.2
150°	2.1	5.3	10.6	14.9	18.1
152.5°	2.1	5.3	9.6	13.8	17.0
155°	2.1	5.3	8.5	11.7	14.9
157.5°	2.1	5.3	8.5	10.6	12.8
160°	3.2	4.3	7.4	9.6	11.7
162.5°	3.2	4.3	6.4	8.5	10.6
165°	3.2	4.3	6.4	7.4	9.6
167.5°	3.2	4.3	5.3	6.4	7.4
170°	3.2	3.2	5.3	5.3	5.3
172.5°	3.2	3.2	4.3	5.3	4.3
175°	3.2	3.2	4.3	4.3	4.3
177.5°	3.2	3.2	4.3	4.3	4.3
180°	3.2	3.2	3.2	3.2	3.2

(END OF REPORT)