

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: P895330

Luminaire Tested: 8TMB-SC3-AOL-UNV-CC93-MID-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895330
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-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 900
5000K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

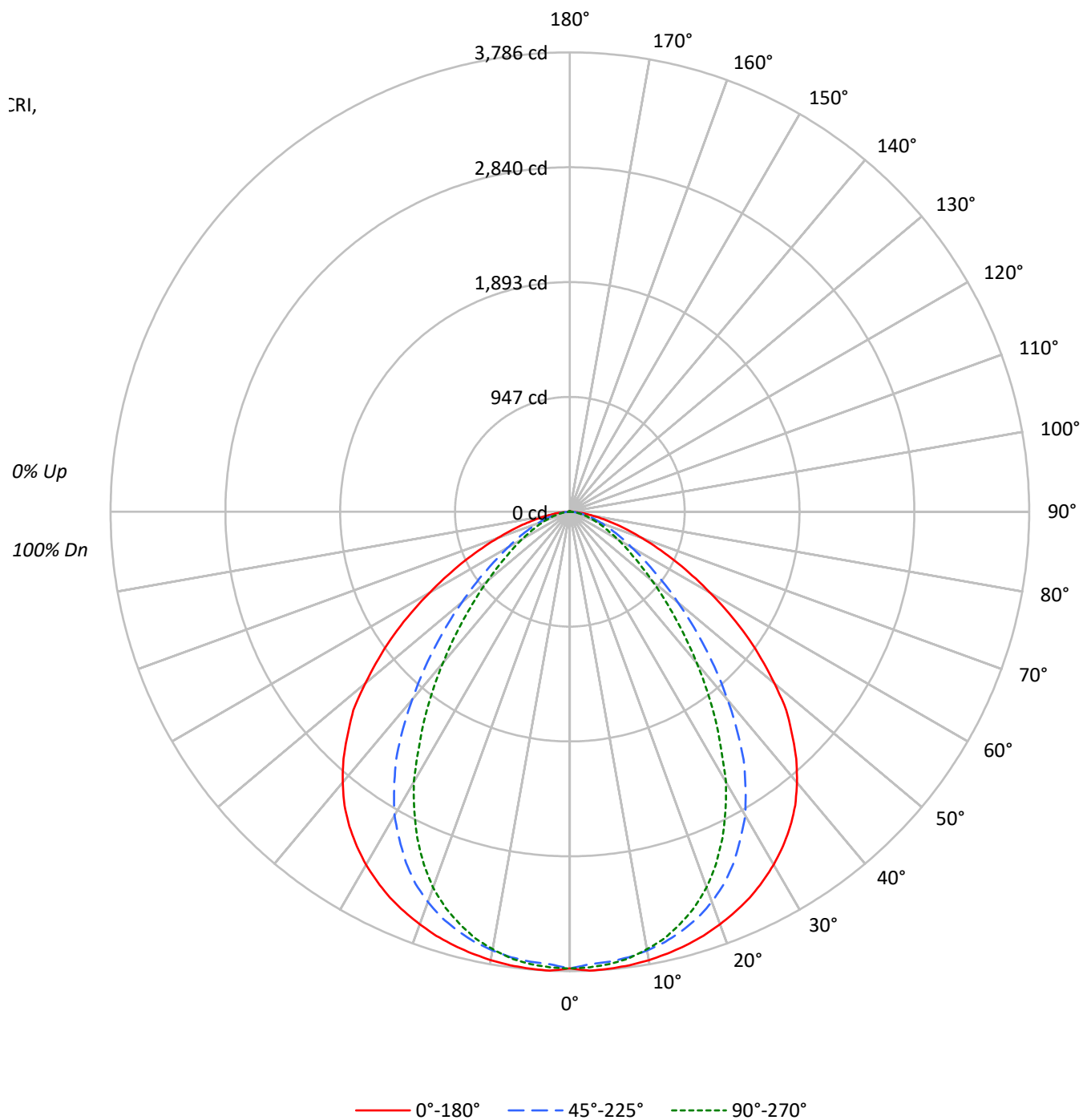
Lumens per Lamp: N/A
Luminaire Lumens: 7519.1 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

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°	19116	19116	19116
5°	19272	18980	19079
10°	19350	18933	18882
15°	19450	18797	18485
20°	19555	18493	17810
25°	19665	17892	16658
30°	19699	16951	15083
35°	19635	15484	12974
40°	19307	13401	10781
45°	18589	11261	8724
50°	17395	9171	6987
55°	15718	7371	5602
60°	13556	5999	4639
65°	11470	4996	3814
70°	9364	4248	3239
75°	7500	3581	2755
80°	5844	3062	2369
85°	4528	2704	2139

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18589 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.4	4.7
10°-20°	1014.3	13.5
20°-30°	1478.4	19.7
30°-40°	1593.6	21.2
40°-50°	1335.9	17.8
50°-60°	904.4	12.0
60°-70°	515.7	6.9
70°-80°	235.9	3.1
80°-90°	61.8	0.8
90°-100°	7.6	0.1
100°-110°	5.2	0.1
110°-120°	2.8	0.0
120°-130°	1.7	0.0
130°-140°	1.6	0.0
140°-150°	1.4	0.0
150°-160°	1.2	0.0
160°-170°	0.9	0.0
170°-180°	0.3	0.0
0°-30°	2849.2	37.9
0°-40°	4442.7	59.1
0°-60°	6683.1	88.9
0°-90°	7496.5	99.7
90°-120°	15.6	0.2
90°-150°	20.2	0.3
90°-180°	23.0	0.3
0°-180°	7519.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3764	3764	3764	3764	3764	
5°	3780	3768	3723	3753	3742	360
15°	3699	3667	3575	3551	3516	1045
25°	3509	3416	3193	3046	2973	1617
35°	3167	2928	2498	2192	2093	1977
45°	2588	2160	1568	1292	1215	1992
55°	1775	1299	832	675	633	1581
65°	954	664	416	337	317	952
75°	382	281	182	149	140	417
85°	78	66	46	39	37	91
90°	11	11	6	5	4	11
95°	16	10	5	3	3	13
105°	11	8	3	2	1	12
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°	3764.0	3764.0	3764.0	3764.0	3764.0
2.5°	3785.6	3775.9	3732.7	3768.3	3757.5
5°	3780.2	3768.3	3723.0	3753.2	3742.4
7.5°	3769.4	3754.3	3703.5	3726.2	3712.2
10°	3752.1	3733.8	3671.2	3684.1	3661.4
12.5°	3728.4	3705.7	3631.2	3628.0	3601.0
15°	3699.2	3666.8	3575.1	3551.3	3515.7
17.5°	3663.6	3622.6	3508.1	3460.6	3417.4
20°	3618.2	3565.3	3421.7	3346.2	3295.4
22.5°	3566.4	3495.2	3321.3	3200.4	3145.3
25°	3509.2	3416.3	3192.8	3046.0	2972.6
27.5°	3437.9	3321.3	3043.8	2853.8	2778.2
30°	3359.1	3211.2	2890.5	2647.6	2572.0
32.5°	3269.5	3084.9	2695.1	2425.1	2319.3
35°	3166.9	2928.3	2497.5	2191.9	2092.6
37.5°	3051.4	2765.2	2261.0	1956.5	1856.1
40°	2912.1	2572.0	2021.3	1720.0	1626.1
42.5°	2762.0	2375.5	1791.3	1495.5	1414.5
45°	2588.2	2159.5	1567.8	1292.5	1214.7
47.5°	2420.8	1941.4	1358.3	1106.7	1043.0
50°	2201.6	1709.2	1160.7	937.2	884.3
52.5°	1987.8	1494.4	992.3	801.2	751.5
55°	1775.1	1298.9	832.5	674.8	632.7
57.5°	1550.5	1107.8	700.8	571.2	543.1
60°	1334.6	942.6	590.6	479.4	456.7
62.5°	1137.0	790.4	499.9	404.9	383.3
65°	954.5	664.0	415.7	336.9	317.4
67.5°	781.7	546.4	346.6	280.7	266.7
70°	630.6	442.7	286.1	231.1	218.1
72.5°	499.9	354.2	228.9	189.0	174.9
75°	382.2	280.7	182.5	149.0	140.4
77.5°	285.1	211.6	140.4	114.5	108.0
80°	199.8	153.3	104.7	86.4	81.0
82.5°	136.0	105.8	73.4	60.5	57.2
85°	77.7	65.9	46.4	38.9	36.7
87.5°	40.0	34.6	24.8	18.4	16.2
90°	10.8	10.8	6.5	5.4	4.3
92.5°	17.3	9.7	6.5	4.3	3.2
95°	16.2	9.7	5.4	3.2	3.2
97.5°	15.1	9.7	4.3	3.2	2.2
100°	14.0	8.6	4.3	2.2	2.2
102.5°	13.0	8.6	4.3	2.2	2.2
105°	10.8	7.6	3.2	2.2	1.1
107.5°	9.7	6.5	3.2	2.2	1.1
110°	7.6	5.4	3.2	2.2	1.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.5	5.4	2.2	2.2	1.1
115°	5.4	4.3	2.2	1.1	1.1
117.5°	4.3	3.2	2.2	1.1	1.1
120°	3.2	3.2	2.2	1.1	1.1
122.5°	3.2	2.2	2.2	1.1	1.1
125°	2.2	2.2	2.2	1.1	1.1
127.5°	2.2	2.2	2.2	1.1	1.1
130°	2.2	2.2	2.2	1.1	1.1
132.5°	2.2	2.2	2.2	2.2	1.1
135°	1.1	2.2	2.2	2.2	1.1
137.5°	2.2	2.2	2.2	2.2	2.2
140°	2.2	2.2	2.2	2.2	2.2
142.5°	2.2	2.2	2.2	2.2	2.2
145°	2.2	2.2	2.2	2.2	2.2
147.5°	2.2	2.2	2.2	2.2	2.2
150°	2.2	2.2	2.2	2.2	2.2
152.5°	2.2	2.2	2.2	2.2	2.2
155°	2.2	2.2	2.2	3.2	3.2
157.5°	2.2	2.2	3.2	3.2	3.2
160°	2.2	2.2	3.2	3.2	3.2
162.5°	2.2	2.2	3.2	3.2	3.2
165°	2.2	3.2	3.2	3.2	3.2
167.5°	2.2	3.2	3.2	3.2	4.3
170°	2.2	3.2	3.2	4.3	4.3
172.5°	2.2	3.2	3.2	4.3	4.3
175°	3.2	3.2	3.2	4.3	4.3
177.5°	3.2	3.2	3.2	4.3	4.3
180°	3.2	3.2	3.2	3.2	3.2

(END OF REPORT)