

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: P895312

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895312
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-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 5000K CC
MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

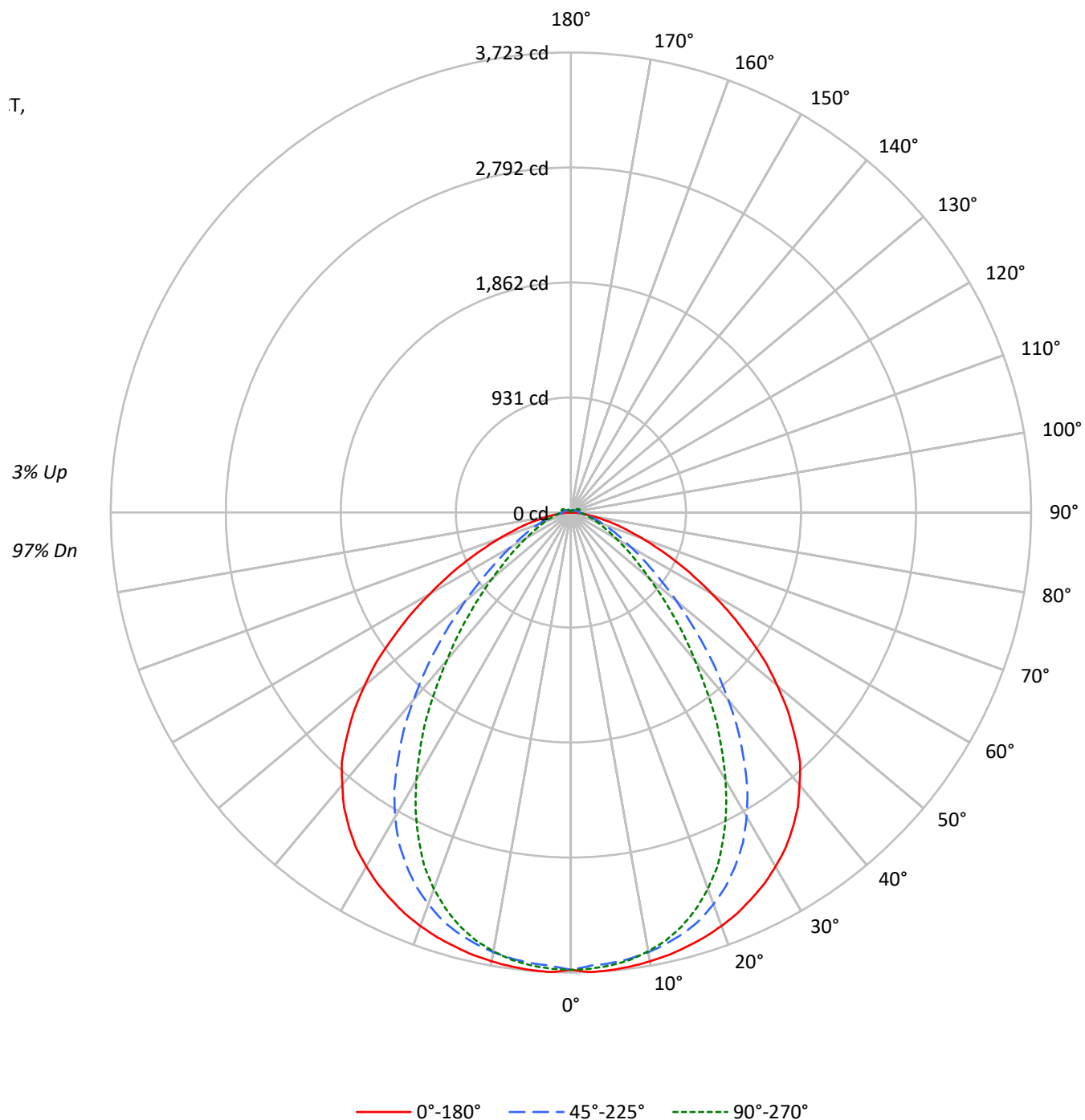
Lumens per Lamp: N/A
Luminaire Lumens: 7593.0 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.08')
CIE Type: Direct

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°	18798	18798	18798
5°	18935	18299	18259
10°	18986	17913	17618
15°	19062	17458	16816
20°	19173	16827	15719
25°	19250	15946	14258
30°	19291	14730	12422
35°	19233	13026	10391
40°	18919	11012	8178
45°	18220	8897	6341
50°	16996	6909	4757
55°	15251	5294	3638
60°	13143	4075	2772
65°	11003	3219	2203
70°	8853	2588	1800
75°	7117	2090	1532
80°	5307	1730	1341
85°	3821	1478	1235

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18220 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.6	4.6
10°-20°	998.8	13.2
20°-30°	1456.1	19.2
30°-40°	1564.4	20.6
40°-50°	1302.0	17.1
50°-60°	870.8	11.5
60°-70°	498.5	6.6
70°-80°	247.9	3.3
80°-90°	101.4	1.3
90°-100°	58.9	0.8
100°-110°	51.9	0.7
110°-120°	38.1	0.5
120°-130°	24.5	0.3
130°-140°	14.6	0.2
140°-150°	8.2	0.1
150°-160°	4.1	0.1
160°-170°	1.7	0.0
170°-180°	0.4	0.0
0°-30°	2805.5	36.9
0°-40°	4369.9	57.6
0°-60°	6542.7	86.2
0°-90°	7390.5	97.3
90°-120°	148.9	2.0
90°-150°	196.2	2.6
90°-180°	202.0	2.7
0°-180°	7593.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3701	3701	3701	3701	3701	
5°	3718	3706	3661	3692	3680	354
15°	3636	3611	3524	3498	3467	1028
25°	3452	3370	3150	2991	2916	1592
35°	3125	2898	2438	2138	2044	1952
45°	2563	2130	1522	1232	1160	1971
55°	1748	1261	794	627	595	1566
65°	936	635	400	324	307	936
75°	377	274	198	175	170	404
85°	73	82	92	96	97	86
90°	11	35	63	74	77	10
95°	16	35	62	74	77	13
105°	11	28	55	72	76	11
115°	5	16	43	59	65	5
125°	3	11	29	43	48	3
135°	2	9	19	29	32	2
145°	2	6	13	19	23	1
155°	2	5	9	12	15	1
165°	3	4	6	8	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°	3701.4	3701.4	3701.4	3701.4	3701.4
2.5°	3723.0	3713.3	3671.2	3704.6	3694.9
5°	3717.6	3705.7	3661.4	3691.7	3679.8
7.5°	3705.7	3692.8	3642.0	3665.8	3652.8
10°	3688.4	3672.2	3613.9	3625.8	3605.3
12.5°	3666.8	3646.3	3574.0	3570.7	3548.1
15°	3635.5	3610.7	3524.3	3498.4	3467.1
17.5°	3603.1	3566.4	3460.6	3407.7	3364.5
20°	3561.0	3512.4	3373.1	3294.3	3240.3
22.5°	3512.4	3446.6	3274.9	3154.0	3097.8
25°	3452.0	3369.9	3149.6	2990.9	2916.4
27.5°	3387.2	3278.1	3013.6	2805.2	2719.9
30°	3309.4	3174.5	2844.1	2593.6	2501.8
32.5°	3227.4	3042.7	2658.4	2371.1	2270.7
35°	3124.8	2898.1	2438.1	2137.9	2044.0
37.5°	3013.6	2725.3	2220.0	1899.3	1793.5
40°	2878.6	2542.8	1980.3	1662.8	1558.1
42.5°	2744.7	2344.1	1750.3	1449.0	1358.3
45°	2563.3	2130.4	1522.5	1232.0	1159.7
47.5°	2380.9	1901.4	1304.3	1056.0	984.7
50°	2177.9	1676.9	1113.2	886.5	827.1
52.5°	1980.3	1467.4	939.4	749.3	698.6
55°	1748.1	1261.2	793.6	627.3	594.9
57.5°	1538.6	1070.0	669.4	531.2	501.0
60°	1317.3	907.0	560.4	449.2	421.1
62.5°	1122.9	762.3	471.9	381.2	361.7
65°	936.1	634.9	399.5	323.9	306.6
67.5°	764.5	530.2	336.9	276.4	262.4
70°	613.3	429.7	284.0	235.4	225.7
72.5°	482.6	345.5	236.5	203.0	194.4
75°	376.8	274.3	197.6	174.9	169.5
77.5°	272.1	213.8	165.2	150.1	146.8
80°	192.2	162.0	136.0	129.6	127.4
82.5°	127.4	117.7	112.3	112.3	111.2
85°	73.4	82.1	91.8	96.1	97.2
87.5°	37.8	55.1	73.4	82.1	83.1
90°	10.8	34.6	62.6	74.5	76.7
92.5°	16.2	34.6	61.5	74.5	76.7
95°	16.2	34.6	61.5	74.5	76.7
97.5°	15.1	33.5	61.5	74.5	76.7
100°	14.0	31.3	60.5	74.5	76.7
102.5°	11.9	30.2	58.3	73.4	76.7
105°	10.8	28.1	55.1	72.3	75.6
107.5°	9.7	23.8	51.8	69.1	73.4
110°	7.6	20.5	49.7	65.9	71.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.5	18.4	46.4	62.6	68.0
115°	5.4	16.2	43.2	59.4	64.8
117.5°	4.3	15.1	38.9	55.1	60.5
120°	3.2	14.0	35.6	51.8	56.1
122.5°	3.2	13.0	31.3	47.5	51.8
125°	3.2	10.8	29.2	43.2	47.5
127.5°	2.2	9.7	25.9	38.9	43.2
130°	2.2	9.7	23.8	35.6	38.9
132.5°	2.2	8.6	21.6	32.4	35.6
135°	2.2	8.6	19.4	29.2	32.4
137.5°	2.2	7.6	17.3	27.0	30.2
140°	2.2	7.6	16.2	23.8	27.0
142.5°	2.2	6.5	14.0	22.7	24.8
145°	2.2	6.5	13.0	19.4	22.7
147.5°	2.2	6.5	11.9	18.4	20.5
150°	2.2	5.4	10.8	15.1	18.4
152.5°	2.2	5.4	9.7	14.0	17.3
155°	2.2	5.4	8.6	11.9	15.1
157.5°	2.2	5.4	8.6	10.8	13.0
160°	3.2	4.3	7.6	9.7	11.9
162.5°	3.2	4.3	6.5	8.6	10.8
165°	3.2	4.3	6.5	7.6	9.7
167.5°	3.2	4.3	5.4	6.5	7.6
170°	3.2	3.2	5.4	5.4	5.4
172.5°	3.2	3.2	4.3	5.4	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)