

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: P895287

Luminaire Tested: 8TMB-SC3-A-UNV-CC93-HI-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-16)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-A-UNV-CC93-HI-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTIC, 90CRI, 4000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

Summary

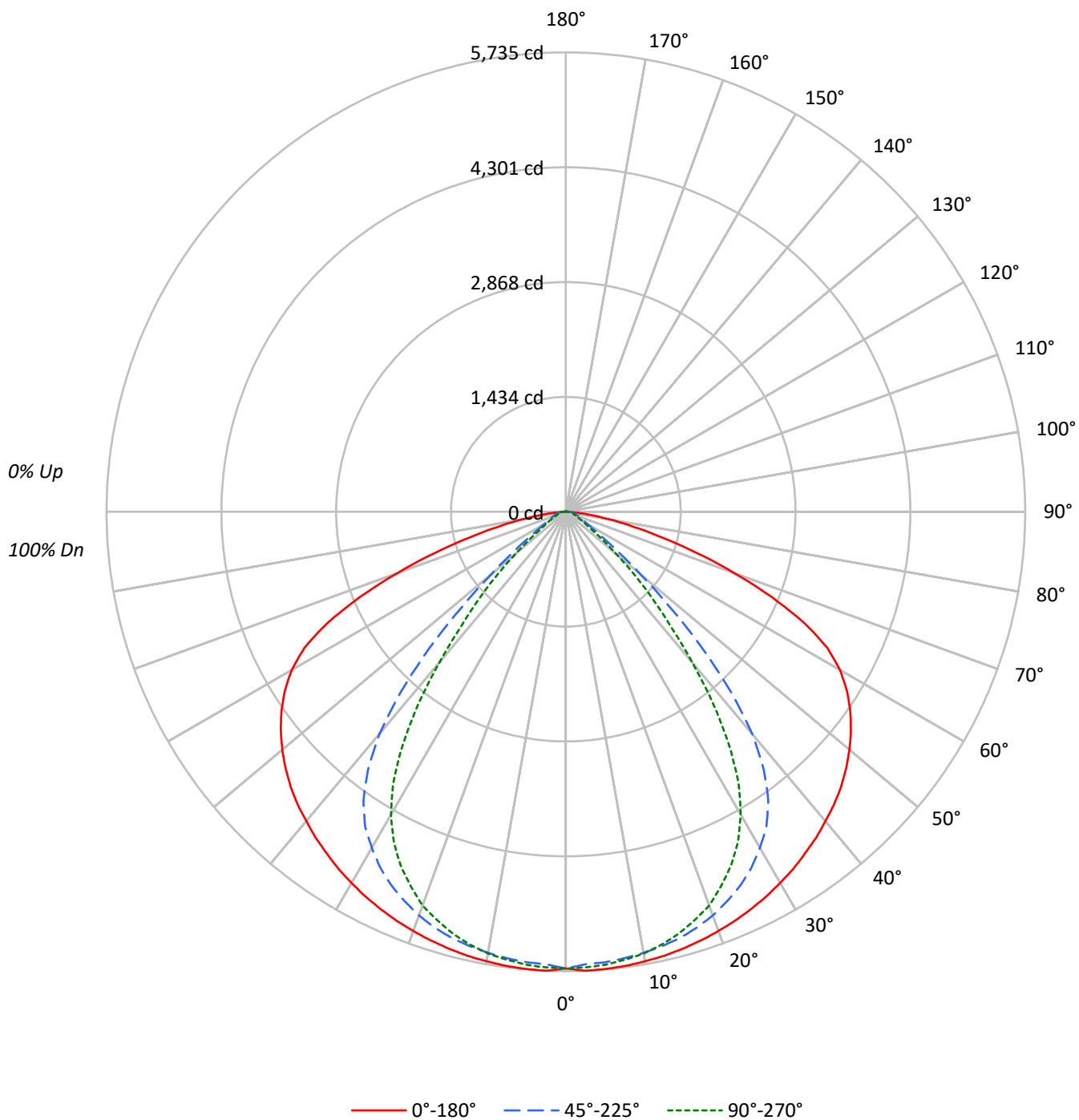
Lumens per Lamp: N/A
Luminaire Lumens: 11686.1 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.41 / 1.15 / 1.23
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 101.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.39961257980444
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	105	102	99	100	98	96		97	95	93		93
2	103	96	90	85	100	94	89	84	91	86	82		87	84	81		84
3	95	86	79	74	93	85	78	73	82	76	72		79	74	71		77
4	88	78	70	65	86	77	70	64	74	68	63		72	67	62		70
5	82	71	63	57	80	70	62	57	68	61	56		66	60	55		64
6	76	64	56	51	74	63	56	51	62	55	50		60	54	50		59
7	71	59	51	46	69	58	51	45	57	50	45		55	49	45		54
8	66	54	47	41	65	54	46	41	52	46	41		51	45	41		50
9	62	50	43	38	61	50	42	37	48	42	37		47	41	37		46
10	59	46	39	34	57	46	39	34	45	39	34		44	38	34		43

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28952	28952	28952
5°	29207	28773	28942
10°	29391	28837	28878
15°	29683	28961	28663
20°	30102	28986	28278
25°	30663	28860	27322
30°	31377	28408	25605
35°	32273	27315	22014
40°	33423	23990	16272
45°	34894	17311	10944
50°	36516	9671	6530
55°	38380	5000	3575
60°	40151	3252	2531
65°	39466	2673	2009
70°	33284	2459	1874
75°	24483	2508	2011
80°	16332	2954	2539
85°	8916	4778	3858

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 62.5°

Luminance: 40493 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.3	4.6
10°-20°	1564.2	13.4
20°-30°	2379.5	20.4
30°-40°	2717.5	23.3
40°-50°	2192.3	18.8
50°-60°	1200.0	10.3
60°-70°	632.7	5.4
70°-80°	310.3	2.7
80°-90°	109.3	0.9
90°-100°	23.5	0.2
100°-110°	3.3	0.0
110°-120°	2.0	0.0
120°-130°	1.8	0.0
130°-140°	1.9	0.0
140°-150°	2.3	0.0
150°-160°	2.0	0.0
160°-170°	1.6	0.0
170°-180°	0.6	0.0
0°-30°	4485.0	38.4
0°-40°	7202.5	61.6
0°-60°	10594.8	90.7
0°-90°	11647.1	99.7
90°-120°	28.8	0.2
90°-150°	34.8	0.3
90°-180°	39.0	0.3
0°-180°	11686.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5701	5701	5701	5701	5701	
5°	5729	5712	5644	5694	5677	546
15°	5645	5611	5508	5499	5451	1597
25°	5472	5393	5150	4975	4876	2528
35°	5205	4986	4406	3806	3551	3265
45°	4858	4174	2410	1647	1524	3750
55°	4335	1784	565	437	404	3867
65°	3284	412	222	180	167	3176
75°	1248	232	128	107	102	1378
85°	153	122	82	74	66	211
90°	6	63	50	44	41	9
95°	5	8	17	27	25	4
105°	2	0	2	3	3	2
115°	2	2	2	3	2	2
125°	2	2	2	3	2	1
135°	2	2	3	3	2	1
145°	3	3	3	5	3	2
155°	3	3	5	6	5	1
165°	3	5	6	6	6	1
175°	5	5	6	8	6	0
180°	6	6	6	6	6	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5700.6	5700.6	5700.6	5700.6	5700.6
2.5°	5735.4	5719.6	5654.9	5710.1	5694.3
5°	5729.0	5711.7	5643.9	5694.3	5677.0
7.5°	5718.0	5695.9	5621.8	5667.5	5640.7
10°	5699.1	5677.0	5591.8	5628.1	5599.7
12.5°	5677.0	5647.0	5552.4	5571.3	5535.0
15°	5645.4	5610.7	5508.2	5498.7	5451.4
17.5°	5610.7	5568.1	5443.5	5402.5	5345.7
20°	5569.7	5517.7	5363.1	5282.6	5232.2
22.5°	5524.0	5456.2	5262.1	5139.1	5060.2
25°	5471.9	5393.1	5150.1	4975.1	4875.7
27.5°	5416.7	5309.5	5014.5	4784.2	4650.1
30°	5350.5	5221.1	4844.1	4533.4	4366.2
32.5°	5284.2	5110.7	4661.2	4210.0	4011.3
35°	5205.4	4986.1	4405.6	3806.2	3550.7
37.5°	5131.2	4836.2	4060.2	3299.9	3025.4
40°	5041.3	4659.6	3618.5	2717.8	2454.4
42.5°	4956.1	4454.5	3045.9	2156.3	1927.6
45°	4858.3	4173.7	2410.2	1646.8	1523.7
47.5°	4744.8	3790.4	1752.5	1225.6	1148.3
50°	4621.7	3263.6	1224.0	889.6	826.5
52.5°	4486.1	2552.2	825.0	618.3	583.6
55°	4334.6	1784.0	564.7	436.9	403.8
57.5°	4159.5	1161.0	410.1	329.7	307.6
60°	3952.9	741.4	320.2	261.8	249.2
62.5°	3681.6	520.5	263.4	216.1	205.1
65°	3284.1	411.7	222.4	179.8	167.2
67.5°	2780.9	348.6	190.9	151.4	143.5
70°	2241.5	302.9	165.6	130.9	126.2
72.5°	1722.5	265.0	143.5	116.7	113.6
75°	1247.7	231.9	127.8	107.3	102.5
77.5°	864.4	200.3	113.6	96.2	93.1
80°	558.4	173.5	101.0	88.3	86.8
82.5°	320.2	145.1	91.5	85.2	83.6
85°	153.0	121.5	82.0	74.1	66.2
87.5°	48.9	89.9	64.7	56.8	50.5
90°	6.3	63.1	50.5	44.2	41.0
92.5°	6.3	34.7	36.3	36.3	34.7
95°	4.7	7.9	17.4	26.8	25.2
97.5°	4.7	3.2	11.0	18.9	18.9
100°	3.2	1.6	4.7	12.6	12.6
102.5°	3.2	1.6	1.6	7.9	7.9
105°	1.6	0.0	1.6	3.2	3.2
107.5°	1.6	1.6	1.6	3.2	1.6
110°	1.6	1.6	1.6	3.2	1.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	1.6	1.6	3.2	1.6
115°	1.6	1.6	1.6	3.2	1.6
117.5°	1.6	1.6	1.6	3.2	1.6
120°	1.6	1.6	1.6	3.2	1.6
122.5°	1.6	1.6	1.6	3.2	1.6
125°	1.6	1.6	1.6	3.2	1.6
127.5°	1.6	1.6	1.6	3.2	1.6
130°	1.6	1.6	3.2	3.2	1.6
132.5°	1.6	1.6	3.2	3.2	1.6
135°	1.6	1.6	3.2	3.2	1.6
137.5°	1.6	1.6	3.2	3.2	3.2
140°	3.2	1.6	3.2	3.2	3.2
142.5°	3.2	3.2	3.2	4.7	3.2
145°	3.2	3.2	3.2	4.7	3.2
147.5°	3.2	3.2	4.7	4.7	3.2
150°	3.2	3.2	4.7	4.7	3.2
152.5°	3.2	3.2	4.7	4.7	4.7
155°	3.2	3.2	4.7	6.3	4.7
157.5°	3.2	3.2	4.7	6.3	4.7
160°	3.2	4.7	6.3	6.3	4.7
162.5°	3.2	4.7	6.3	6.3	6.3
165°	3.2	4.7	6.3	6.3	6.3
167.5°	4.7	4.7	6.3	7.9	6.3
170°	4.7	4.7	6.3	7.9	6.3
172.5°	4.7	4.7	6.3	7.9	6.3
175°	4.7	4.7	6.3	7.9	6.3
177.5°	4.7	4.7	6.3	7.9	7.9
180°	6.3	6.3	6.3	6.3	6.3

(END OF REPORT)