

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: P895278

Luminaire Tested: 8TMB-SC3-A-UNV-CC83-HI-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895278
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-CC83-HI-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTIC, 80CRI, 4000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

Summary

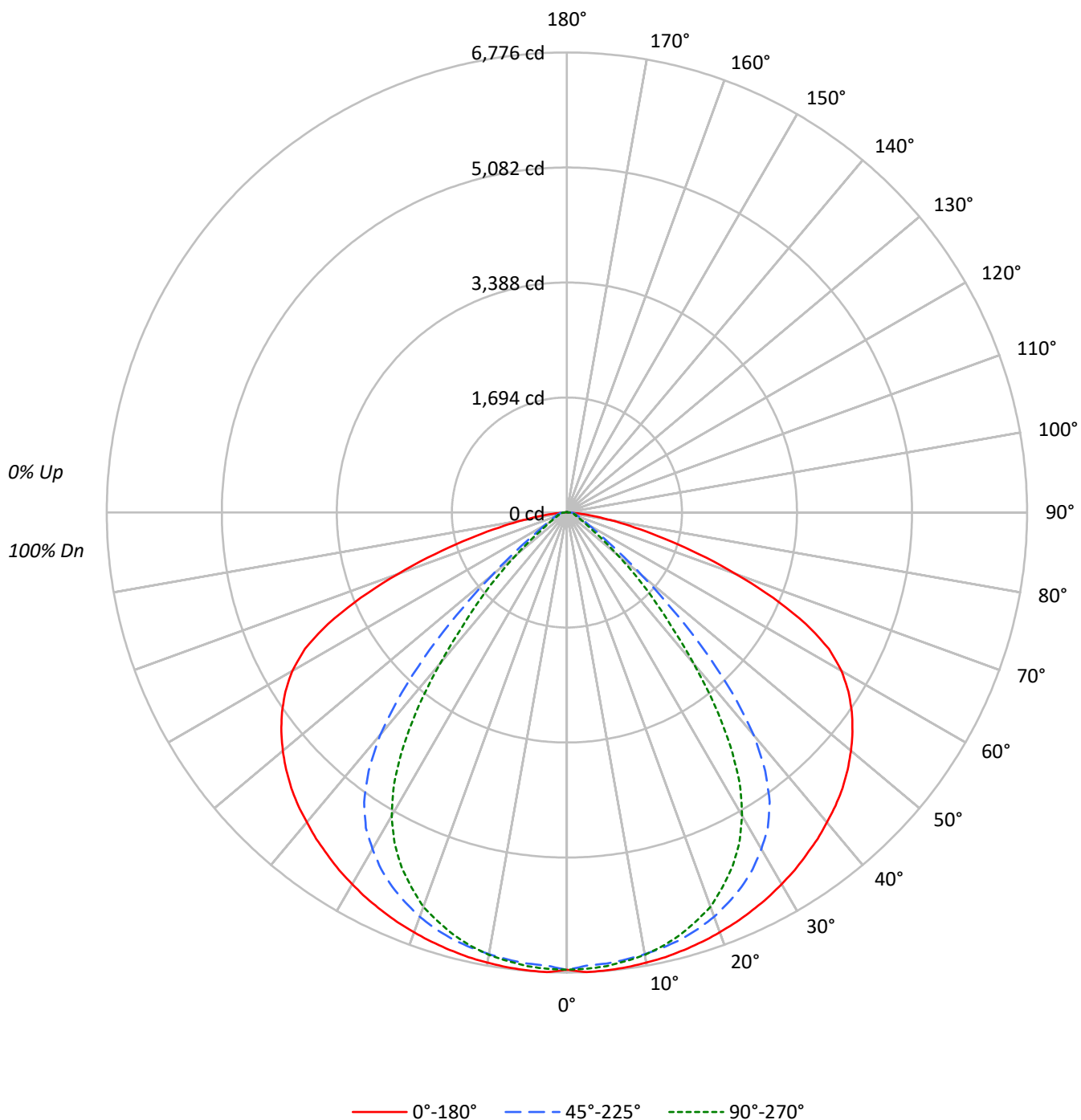
Lumens per Lamp: N/A
Luminaire Lumens: 13807.1 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.15 / 1.23
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	111	107	103	100	108	105	102	99	100	98	96	97	95	93	93	91	90	90	90	88
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	84	81	79	79	79	77
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	69	69	67
4	88	78	70	65	86	77	70	64	74	68	63	72	67	62	70	65	62	62	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	55	64	59	55	55	55	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	49	49	47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	45	45	43
8	66	54	47	41	65	54	46	41	52	46	41	51	45	41	50	44	40	40	40	39
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	46	41	37	37	37	35
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	34	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34207	34207	34207
5°	34509	33995	34195
10°	34724	34071	34119
15°	35070	34218	33865
20°	35566	34247	33410
25°	36229	34098	32281
30°	37072	33564	30252
35°	38130	32272	26009
40°	39489	28344	19226
45°	41228	20453	12930
50°	43145	11427	7716
55°	45347	5908	4224
60°	47439	3843	2991
65°	46629	3158	2373
70°	39325	2906	2214
75°	28928	2963	2376
80°	19294	3489	2998
85°	10536	5647	4563

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 62.5°

Luminance: 47843 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	639.5	4.6
10°-20°	1848.1	13.4
20°-30°	2811.3	20.4
30°-40°	3210.7	23.3
40°-50°	2590.2	18.8
50°-60°	1417.8	10.3
60°-70°	747.6	5.4
70°-80°	366.6	2.7
80°-90°	129.1	0.9
90°-100°	27.8	0.2
100°-110°	3.9	0.0
110°-120°	2.3	0.0
120°-130°	2.2	0.0
130°-140°	2.3	0.0
140°-150°	2.6	0.0
150°-160°	2.4	0.0
160°-170°	1.9	0.0
170°-180°	0.7	0.0
0°-30°	5299.0	38.4
0°-40°	8509.7	61.6
0°-60°	12517.8	90.7
0°-90°	13761.0	99.7
90°-120°	34.0	0.2
90°-150°	41.0	0.3
90°-180°	46.0	0.3
0°-180°	13807.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6735	6735	6735	6735	6735	
5°	6769	6748	6668	6728	6707	645
15°	6670	6629	6508	6497	6441	1887
25°	6465	6372	6085	5878	5761	2987
35°	6150	5891	5205	4497	4195	3858
45°	5740	4931	2848	1946	1800	4430
55°	5121	2108	667	516	477	4569
65°	3880	486	263	212	198	3753
75°	1474	274	151	127	121	1628
85°	181	144	97	88	78	249
90°	8	74	60	52	48	11
95°	6	9	20	32	30	5
105°	2	0	2	4	4	3
115°	2	2	2	4	2	2
125°	2	2	2	4	2	2
135°	2	2	4	4	2	2
145°	4	4	4	6	4	2
155°	4	4	6	8	6	2
165°	4	6	8	8	8	1
175°	6	6	8	9	8	1
180°	8	8	8	8	8	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6735.3	6735.3	6735.3	6735.3	6735.3
2.5°	6776.3	6757.7	6681.3	6746.5	6727.9
5°	6768.9	6748.4	6668.2	6727.9	6707.4
7.5°	6755.8	6729.7	6642.1	6696.2	6664.5
10°	6733.4	6707.4	6606.7	6649.6	6616.0
12.5°	6707.4	6671.9	6560.1	6582.5	6539.6
15°	6670.1	6629.1	6507.9	6496.8	6440.9
17.5°	6629.1	6578.8	6431.5	6383.1	6316.0
20°	6580.6	6519.1	6336.5	6241.4	6181.8
22.5°	6526.6	6446.4	6217.2	6071.8	5978.7
25°	6465.1	6371.9	6084.9	5878.0	5760.6
27.5°	6399.9	6273.1	5924.6	5652.5	5494.1
30°	6321.6	6168.8	5723.3	5356.2	5158.6
32.5°	6243.3	6038.3	5507.2	4974.1	4739.3
35°	6150.1	5891.1	5205.2	4497.0	4195.1
37.5°	6062.5	5714.0	4797.1	3898.8	3574.5
40°	5956.3	5505.3	4275.3	3211.1	2899.9
42.5°	5855.7	5263.0	3598.8	2547.6	2277.4
45°	5740.1	4931.3	2847.7	1945.7	1800.3
47.5°	5605.9	4478.4	2070.5	1448.1	1356.8
50°	5460.6	3855.9	1446.2	1051.1	976.6
52.5°	5300.3	3015.4	974.7	730.6	689.6
55°	5121.4	2107.8	667.2	516.2	477.1
57.5°	4914.5	1371.7	484.6	389.5	363.4
60°	4670.4	875.9	378.3	309.4	294.5
62.5°	4349.8	615.0	311.2	255.3	242.3
65°	3880.2	486.4	262.8	212.5	197.5
67.5°	3285.7	411.9	225.5	178.9	169.6
70°	2648.3	357.8	195.7	154.7	149.1
72.5°	2035.1	313.1	169.6	137.9	134.2
75°	1474.2	274.0	151.0	126.7	121.1
77.5°	1021.3	236.7	134.2	113.7	110.0
80°	659.7	205.0	119.3	104.4	102.5
82.5°	378.3	171.5	108.1	100.6	98.8
85°	180.8	143.5	96.9	87.6	78.3
87.5°	57.8	106.2	76.4	67.1	59.6
90°	7.5	74.5	59.6	52.2	48.5
92.5°	7.5	41.0	42.9	42.9	41.0
95°	5.6	9.3	20.5	31.7	29.8
97.5°	5.6	3.7	13.0	22.4	22.4
100°	3.7	1.9	5.6	14.9	14.9
102.5°	3.7	1.9	1.9	9.3	9.3
105°	1.9	0.0	1.9	3.7	3.7
107.5°	1.9	1.9	1.9	3.7	1.9
110°	1.9	1.9	1.9	3.7	1.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	1.9	1.9	3.7	1.9
115°	1.9	1.9	1.9	3.7	1.9
117.5°	1.9	1.9	1.9	3.7	1.9
120°	1.9	1.9	1.9	3.7	1.9
122.5°	1.9	1.9	1.9	3.7	1.9
125°	1.9	1.9	1.9	3.7	1.9
127.5°	1.9	1.9	1.9	3.7	1.9
130°	1.9	1.9	3.7	3.7	1.9
132.5°	1.9	1.9	3.7	3.7	1.9
135°	1.9	1.9	3.7	3.7	1.9
137.5°	1.9	1.9	3.7	3.7	3.7
140°	3.7	1.9	3.7	3.7	3.7
142.5°	3.7	3.7	3.7	5.6	3.7
145°	3.7	3.7	3.7	5.6	3.7
147.5°	3.7	3.7	5.6	5.6	3.7
150°	3.7	3.7	5.6	5.6	3.7
152.5°	3.7	3.7	5.6	5.6	5.6
155°	3.7	3.7	5.6	7.5	5.6
157.5°	3.7	3.7	5.6	7.5	5.6
160°	3.7	5.6	7.5	7.5	5.6
162.5°	3.7	5.6	7.5	7.5	7.5
165°	3.7	5.6	7.5	7.5	7.5
167.5°	5.6	5.6	7.5	9.3	7.5
170°	5.6	5.6	7.5	9.3	7.5
172.5°	5.6	5.6	7.5	9.3	7.5
175°	5.6	5.6	7.5	9.3	7.5
177.5°	5.6	5.6	7.5	9.3	9.3
180°	7.5	7.5	7.5	7.5	7.5

(END OF REPORT)