

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: P895294

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895294
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-MID-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTIC, 90CRI, 5000K CCT, MID lumen settin
Light Source: -
Ballast/Driver: -

Summary

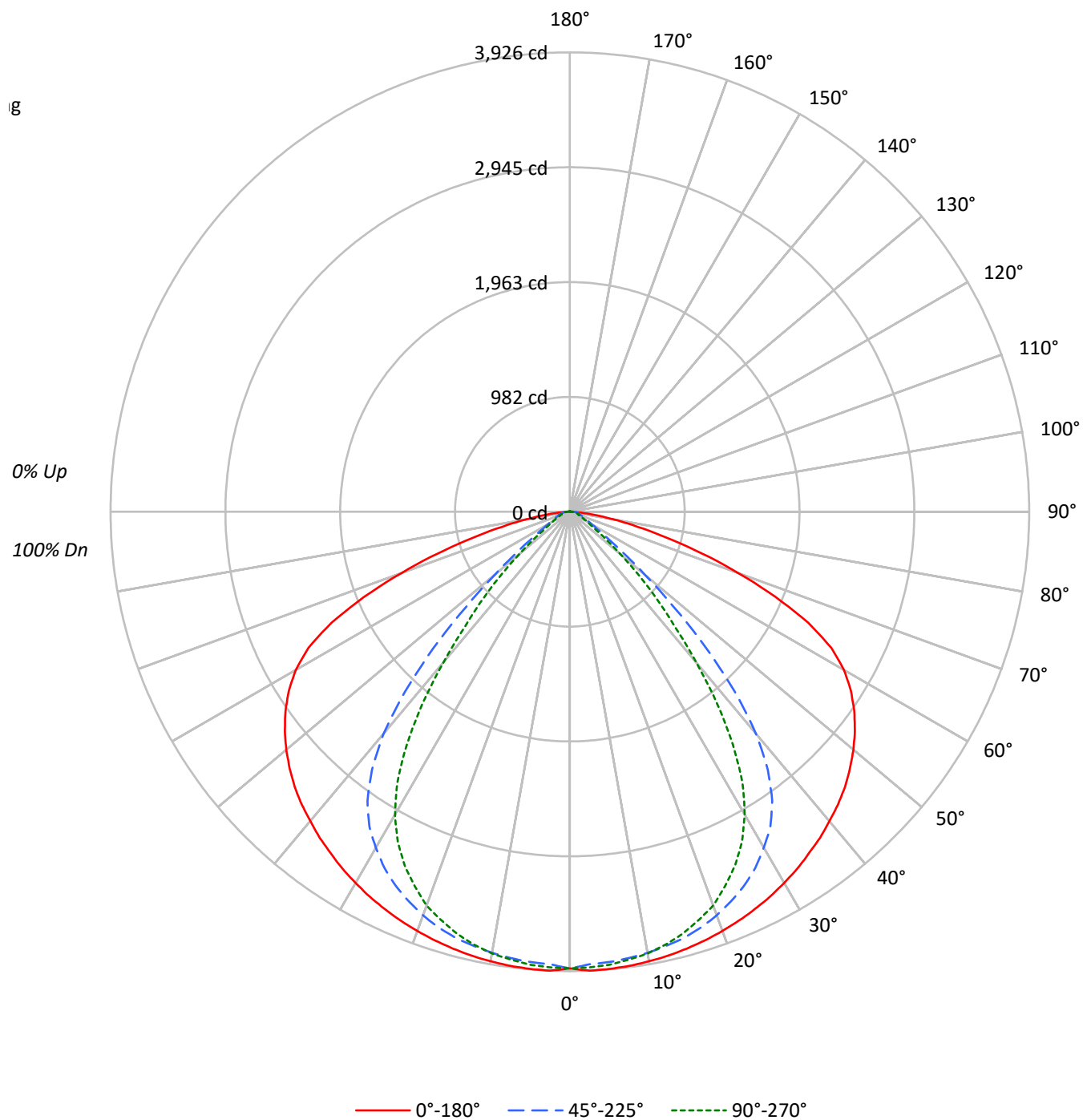
Lumens per Lamp: N/A
Luminaire Lumens: 7999.1 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.15 / 1.23
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19818	19818	19818
5°	19992	19695	19811
10°	20118	19739	19767
15°	20318	19824	19620
20°	20605	19840	19356
25°	20989	19754	18702
30°	21478	19445	17526
35°	22090	18697	15068
40°	22877	16421	11138
45°	23885	11849	7491
50°	24995	6620	4470
55°	26271	3422	2447
60°	27483	2227	1733
65°	27015	1829	1375
70°	22783	1684	1283
75°	16758	1717	1378
80°	11178	2021	1737
85°	6101	3269	2640

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 62.5°

Luminance: 27717 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.5	4.6
10°-20°	1070.7	13.4
20°-30°	1628.7	20.4
30°-40°	1860.1	23.3
40°-50°	1500.6	18.8
50°-60°	821.4	10.3
60°-70°	433.1	5.4
70°-80°	212.4	2.7
80°-90°	74.8	0.9
90°-100°	16.1	0.2
100°-110°	2.2	0.0
110°-120°	1.4	0.0
120°-130°	1.3	0.0
130°-140°	1.3	0.0
140°-150°	1.5	0.0
150°-160°	1.4	0.0
160°-170°	1.1	0.0
170°-180°	0.4	0.0
0°-30°	3069.9	38.4
0°-40°	4930.1	61.6
0°-60°	7252.1	90.7
0°-90°	7972.4	99.7
90°-120°	19.7	0.2
90°-150°	23.8	0.3
90°-180°	27.0	0.3
0°-180°	7999.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3902	3902	3902	3902	3902	
5°	3922	3910	3863	3898	3886	374
15°	3864	3840	3770	3764	3732	1093
25°	3746	3692	3525	3405	3337	1730
35°	3563	3413	3016	2605	2430	2235
45°	3326	2857	1650	1127	1043	2567
55°	2967	1221	386	299	276	2647
65°	2248	282	152	123	114	2174
75°	854	159	88	73	70	943
85°	105	83	56	51	45	145
90°	4	43	35	30	28	6
95°	3	5	12	18	17	3
105°	1	0	1	2	2	2
115°	1	1	1	2	1	1
125°	1	1	1	2	1	1
135°	1	1	2	2	1	1
145°	2	2	2	3	2	1
155°	2	2	3	4	3	1
165°	2	3	4	4	4	1
175°	3	3	4	5	4	0
180°	4	4	4	4	4	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3902.1	3902.1	3902.1	3902.1	3902.1
2.5°	3925.8	3915.0	3870.8	3908.5	3897.7
5°	3921.5	3909.6	3863.2	3897.7	3885.9
7.5°	3913.9	3898.8	3848.1	3879.4	3861.0
10°	3901.0	3885.9	3827.6	3852.4	3833.0
12.5°	3885.9	3865.4	3800.6	3813.5	3788.7
15°	3864.3	3840.5	3770.3	3763.9	3731.5
17.5°	3840.5	3811.4	3726.1	3698.0	3659.1
20°	3812.4	3776.8	3671.0	3615.9	3581.4
22.5°	3781.1	3734.7	3601.9	3517.7	3463.7
25°	3745.5	3691.5	3525.2	3405.4	3337.4
27.5°	3707.7	3634.3	3432.4	3274.8	3183.0
30°	3662.4	3573.8	3315.8	3103.1	2988.6
32.5°	3617.0	3498.3	3190.5	2881.7	2745.7
35°	3563.0	3413.0	3015.6	2605.3	2430.4
37.5°	3512.3	3310.4	2779.2	2258.7	2070.9
40°	3450.7	3189.5	2476.8	1860.3	1680.0
42.5°	3392.4	3049.1	2084.9	1476.0	1319.4
45°	3325.5	2856.9	1649.8	1127.2	1043.0
47.5°	3247.8	2594.5	1199.6	838.9	786.0
50°	3163.5	2233.9	837.9	609.0	565.8
52.5°	3070.7	1747.0	564.7	423.2	399.5
55°	2967.0	1221.1	386.5	299.1	276.4
57.5°	2847.2	794.7	280.7	225.7	210.5
60°	2705.7	507.5	219.2	179.2	170.6
62.5°	2520.0	356.3	180.3	147.9	140.4
65°	2248.0	281.8	152.2	123.1	114.4
67.5°	1903.5	238.6	130.6	103.7	98.3
70°	1534.3	207.3	113.4	89.6	86.4
72.5°	1179.0	181.4	98.3	79.9	77.7
75°	854.0	158.7	87.5	73.4	70.2
77.5°	591.7	137.1	77.7	65.9	63.7
80°	382.2	118.8	69.1	60.5	59.4
82.5°	219.2	99.3	62.6	58.3	57.2
85°	104.7	83.1	56.1	50.7	45.3
87.5°	33.5	61.5	44.3	38.9	34.6
90°	4.3	43.2	34.6	30.2	28.1
92.5°	4.3	23.8	24.8	24.8	23.8
95°	3.2	5.4	11.9	18.4	17.3
97.5°	3.2	2.2	7.6	13.0	13.0
100°	2.2	1.1	3.2	8.6	8.6
102.5°	2.2	1.1	1.1	5.4	5.4
105°	1.1	0.0	1.1	2.2	2.2
107.5°	1.1	1.1	1.1	2.2	1.1
110°	1.1	1.1	1.1	2.2	1.1



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)