

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: P895292

Luminaire Tested: 8TMB-SC3-A-UNV-CC93-MID-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895292
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-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTIC, 90CRI, 3500K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

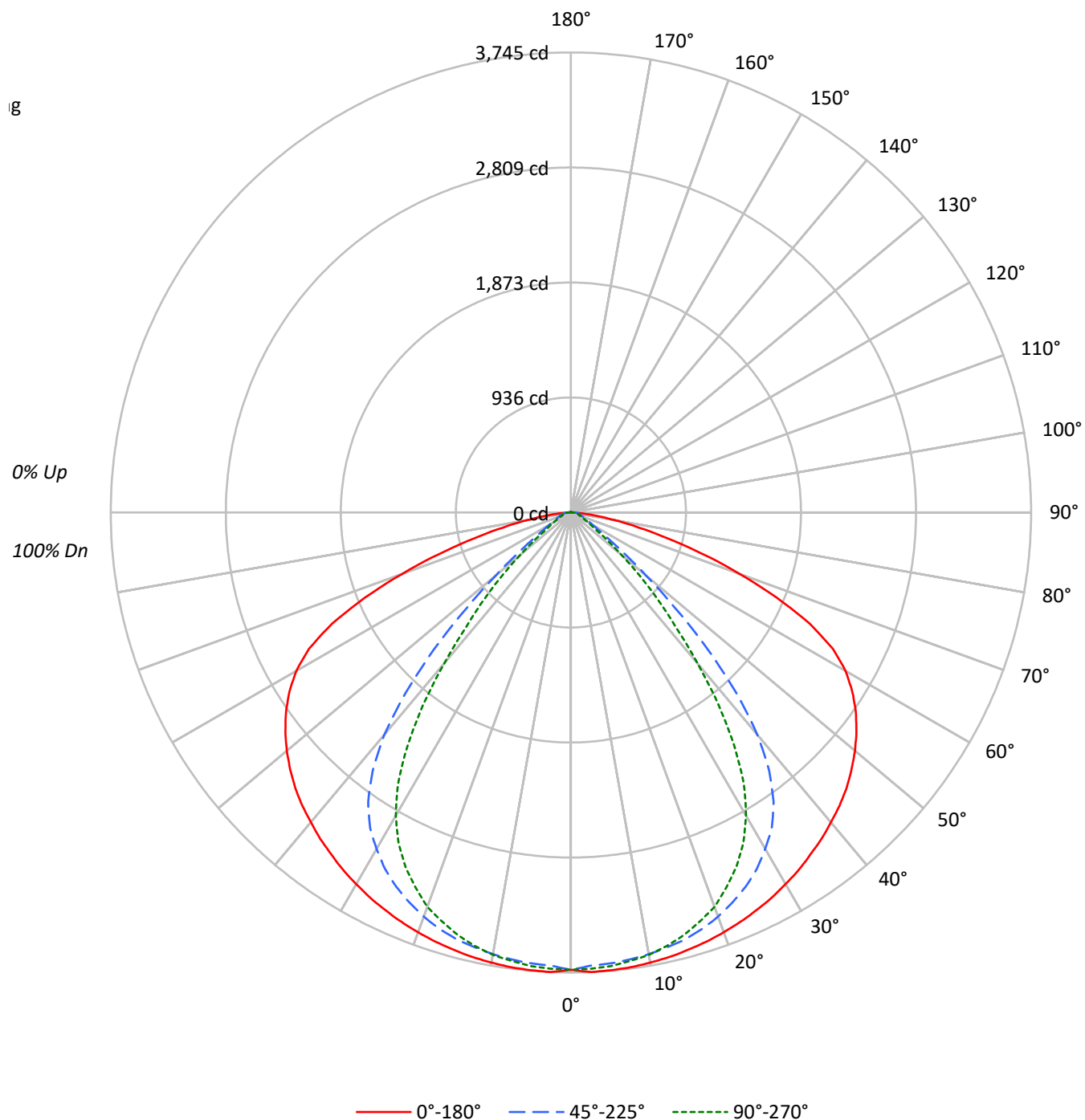
Lumens per Lamp: N/A
Luminaire Lumens: 7630.0 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.15 / 1.23
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

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
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°	18903	18903	18903
5°	19070	18787	18897
10°	19189	18828	18855
15°	19380	18909	18714
20°	19655	18925	18463
25°	20020	18843	17839
30°	20487	18548	16718
35°	21072	17834	14373
40°	21823	15664	10624
45°	22783	11303	7146
50°	23842	6315	4264
55°	25060	3265	2335
60°	26215	2124	1653
65°	25769	1745	1312
70°	21732	1605	1224
75°	15987	1637	1313
80°	10663	1927	1655
85°	5821	3123	2523

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 62.5°

Luminance: 26439 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.4	4.6
10°-20°	1021.3	13.4
20°-30°	1553.6	20.4
30°-40°	1774.3	23.3
40°-50°	1431.4	18.8
50°-60°	783.5	10.3
60°-70°	413.1	5.4
70°-80°	202.6	2.7
80°-90°	71.4	0.9
90°-100°	15.3	0.2
100°-110°	2.1	0.0
110°-120°	1.3	0.0
120°-130°	1.2	0.0
130°-140°	1.3	0.0
140°-150°	1.5	0.0
150°-160°	1.3	0.0
160°-170°	1.0	0.0
170°-180°	0.4	0.0
0°-30°	2928.3	38.4
0°-40°	4702.6	61.6
0°-60°	6917.5	90.7
0°-90°	7604.6	99.7
90°-120°	18.7	0.2
90°-150°	22.6	0.3
90°-180°	25.0	0.3
0°-180°	7630.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3722	3722	3722	3722	3722	
5°	3741	3729	3685	3718	3707	356
15°	3686	3663	3596	3590	3559	1043
25°	3573	3521	3363	3248	3183	1651
35°	3399	3256	2876	2485	2318	2132
45°	3172	2725	1574	1075	995	2448
55°	2830	1165	369	285	264	2525
65°	2144	269	145	117	109	2074
75°	815	151	83	70	67	900
85°	100	79	54	48	43	138
90°	4	41	33	29	27	6
95°	3	5	11	18	16	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°	3722.1	3722.1	3722.1	3722.1	3722.1
2.5°	3744.7	3734.4	3692.2	3728.2	3717.9
5°	3740.6	3729.3	3685.0	3717.9	3706.6
7.5°	3733.4	3719.0	3670.6	3700.4	3682.9
10°	3721.0	3706.6	3651.0	3674.7	3656.1
12.5°	3706.6	3687.0	3625.2	3637.6	3613.9
15°	3686.0	3663.4	3596.4	3590.2	3559.3
17.5°	3663.4	3635.5	3554.2	3527.4	3490.3
20°	3636.6	3602.6	3501.7	3449.1	3416.2
22.5°	3606.7	3562.4	3435.7	3355.4	3303.9
25°	3572.7	3521.2	3362.6	3248.3	3183.4
27.5°	3536.7	3466.6	3274.1	3123.7	3036.1
30°	3493.4	3409.0	3162.8	2959.9	2850.8
32.5°	3450.2	3336.9	3043.4	2748.8	2619.0
35°	3398.7	3255.5	2876.5	2485.1	2318.3
37.5°	3350.3	3157.7	2651.0	2154.5	1975.3
40°	3291.6	3042.3	2362.6	1774.5	1602.5
42.5°	3235.9	2908.4	1988.7	1407.9	1258.5
45°	3172.1	2725.1	1573.7	1075.2	994.9
47.5°	3097.9	2474.8	1144.2	800.2	749.8
50°	3017.6	2130.9	799.2	580.9	539.7
52.5°	2929.0	1666.4	538.6	403.7	381.1
55°	2830.2	1164.8	368.7	285.3	263.7
57.5°	2715.8	758.0	267.8	215.2	200.8
60°	2580.9	484.1	209.1	171.0	162.7
62.5°	2403.8	339.9	172.0	141.1	133.9
65°	2144.3	268.8	145.2	117.4	109.2
67.5°	1815.7	227.6	124.6	98.9	93.7
70°	1463.5	197.7	108.1	85.5	82.4
72.5°	1124.7	173.0	93.7	76.2	74.2
75°	814.7	151.4	83.4	70.0	66.9
77.5°	564.4	130.8	74.2	62.8	60.8
80°	364.6	113.3	65.9	57.7	56.6
82.5°	209.1	94.8	59.7	55.6	54.6
85°	99.9	79.3	53.6	48.4	43.3
87.5°	31.9	58.7	42.2	37.1	33.0
90°	4.1	41.2	33.0	28.8	26.8
92.5°	4.1	22.7	23.7	23.7	22.7
95°	3.1	5.1	11.3	17.5	16.5
97.5°	3.1	2.1	7.2	12.4	12.4
100°	2.1	1.0	3.1	8.2	8.2
102.5°	2.1	1.0	1.0	5.1	5.1
105°	1.0	0.0	1.0	2.1	2.1
107.5°	1.0	1.0	1.0	2.1	1.0
110°	1.0	1.0	1.0	2.1	1.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	1.0	1.0	2.1	1.0
115°	1.0	1.0	1.0	2.1	1.0
117.5°	1.0	1.0	1.0	2.1	1.0
120°	1.0	1.0	1.0	2.1	1.0
122.5°	1.0	1.0	1.0	2.1	1.0
125°	1.0	1.0	1.0	2.1	1.0
127.5°	1.0	1.0	1.0	2.1	1.0
130°	1.0	1.0	2.1	2.1	1.0
132.5°	1.0	1.0	2.1	2.1	1.0
135°	1.0	1.0	2.1	2.1	1.0
137.5°	1.0	1.0	2.1	2.1	2.1
140°	2.1	1.0	2.1	2.1	2.1
142.5°	2.1	2.1	2.1	3.1	2.1
145°	2.1	2.1	2.1	3.1	2.1
147.5°	2.1	2.1	3.1	3.1	2.1
150°	2.1	2.1	3.1	3.1	2.1
152.5°	2.1	2.1	3.1	3.1	3.1
155°	2.1	2.1	3.1	4.1	3.1
157.5°	2.1	2.1	3.1	4.1	3.1
160°	2.1	3.1	4.1	4.1	3.1
162.5°	2.1	3.1	4.1	4.1	4.1
165°	2.1	3.1	4.1	4.1	4.1
167.5°	3.1	3.1	4.1	5.1	4.1
170°	3.1	3.1	4.1	5.1	4.1
172.5°	3.1	3.1	4.1	5.1	4.1
175°	3.1	3.1	4.1	5.1	4.1
177.5°	3.1	3.1	4.1	5.1	5.1
180°	4.1	4.1	4.1	4.1	4.1

(END OF REPORT)