

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: P895293

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895293
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-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTIC, 90CRI, 4000K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

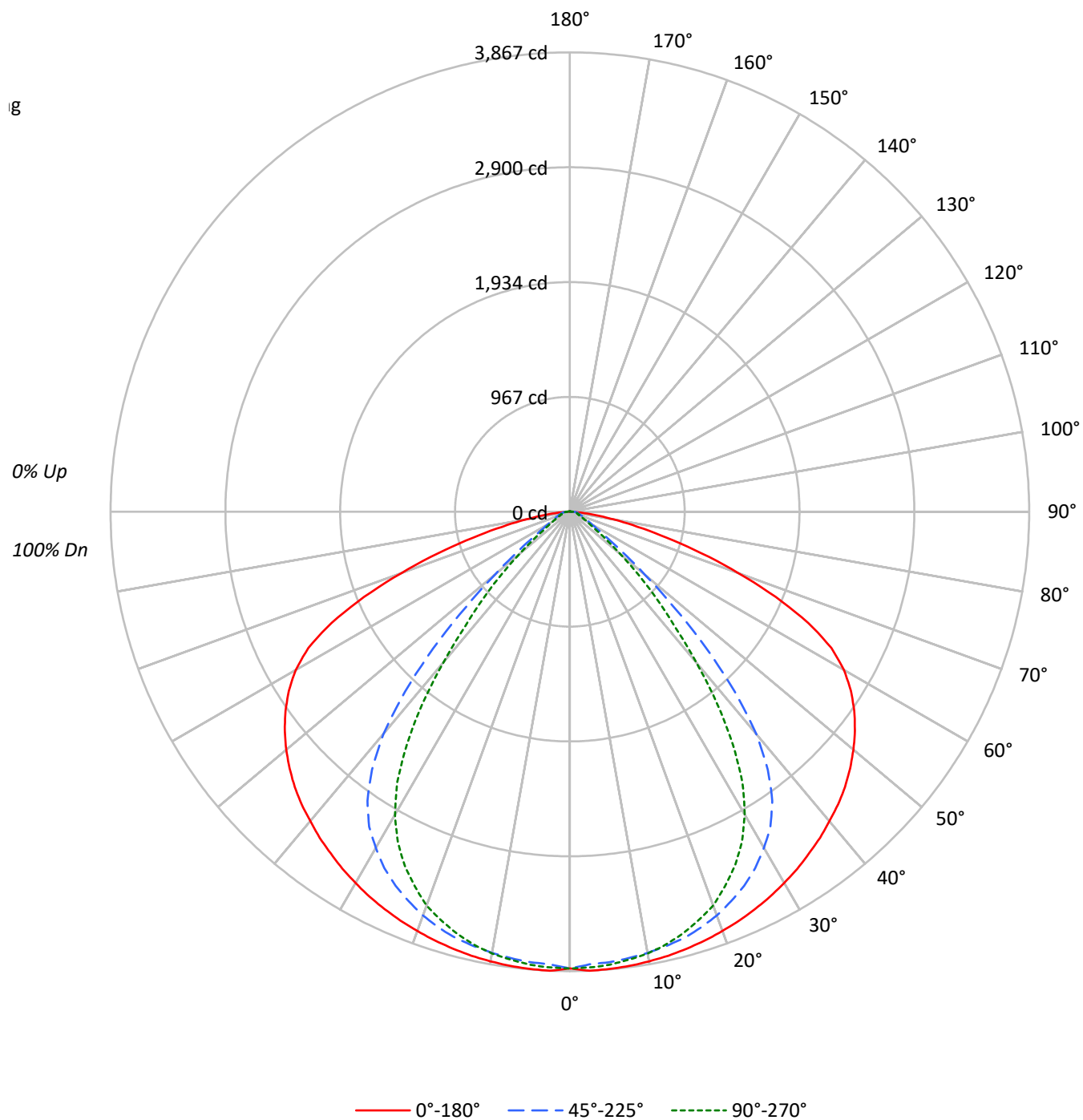
Lumens per Lamp: N/A
Luminaire Lumens: 7880.1 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.15 / 1.23
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P895293

CATALOG NUMBER: 8TMB-SC3-A-UNV-CC93-MID-4000K

Luminous Intensity Polar Plot



TEST NUMBER: P895293

CATALOG NUMBER: 8TMB-SC3-A-UNV-CC93-MID-4000K

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°	19523	19523	19523
5°	19695	19402	19516
10°	19818	19445	19473
15°	20016	19529	19328
20°	20298	19545	19068
25°	20677	19461	18423
30°	21158	19156	17266
35°	21762	18419	14845
40°	22537	16177	10972
45°	23529	11673	7380
50°	24624	6522	4403
55°	25881	3372	2411
60°	27075	2193	1707
65°	26612	1803	1354
70°	22443	1659	1264
75°	16508	1691	1356
80°	11012	1992	1711
85°	6014	3222	2605

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 62.5°

Luminance: 27305 cd/sqm

TEST NUMBER: P895293

CATALOG NUMBER: 8TMB-SC3-A-UNV-CC93-MID-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.0	4.6
10°-20°	1054.8	13.4
20°-30°	1604.5	20.4
30°-40°	1832.4	23.3
40°-50°	1478.3	18.8
50°-60°	809.2	10.3
60°-70°	426.6	5.4
70°-80°	209.2	2.7
80°-90°	73.7	0.9
90°-100°	15.9	0.2
100°-110°	2.2	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°	1.4	0.0
160°-170°	1.1	0.0
170°-180°	0.4	0.0
0°-30°	3024.3	38.4
0°-40°	4856.7	61.6
0°-60°	7144.2	90.7
0°-90°	7853.8	99.7
90°-120°	19.4	0.2
90°-150°	23.4	0.3
90°-180°	26.0	0.3
0°-180°	7880.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3844	3844	3844	3844	3844	
5°	3863	3852	3806	3840	3828	368
15°	3807	3783	3714	3708	3676	1077
25°	3690	3637	3473	3355	3288	1705
35°	3510	3362	2971	2567	2394	2202
45°	3276	2814	1625	1110	1028	2529
55°	2923	1203	381	295	272	2608
65°	2214	278	150	121	113	2142
75°	841	156	86	72	69	929
85°	103	82	55	50	45	142
90°	4	42	34	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	

TEST NUMBER: P895293

CATALOG NUMBER: 8TMB-SC3-A-UNV-CC93-MID-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3844.0	3844.0	3844.0	3844.0	3844.0
2.5°	3867.4	3856.8	3813.2	3850.4	3839.8
5°	3863.2	3851.5	3805.7	3839.8	3828.1
7.5°	3855.7	3840.8	3790.8	3821.7	3803.6
10°	3842.9	3828.1	3770.6	3795.1	3775.9
12.5°	3828.1	3807.8	3744.0	3756.8	3732.3
15°	3806.8	3783.4	3714.2	3707.9	3676.0
17.5°	3783.4	3754.7	3670.6	3643.0	3604.7
20°	3755.7	3720.6	3616.4	3562.1	3528.1
22.5°	3724.9	3679.1	3548.3	3465.4	3412.2
25°	3689.8	3636.6	3472.8	3354.7	3287.7
27.5°	3652.6	3580.2	3381.3	3226.0	3135.6
30°	3607.9	3520.7	3266.5	3056.9	2944.2
32.5°	3563.2	3446.2	3143.1	2838.9	2704.8
35°	3510.0	3362.2	2970.8	2566.6	2394.3
37.5°	3460.0	3261.1	2737.8	2225.1	2040.1
40°	3399.4	3142.0	2440.0	1832.7	1655.0
42.5°	3342.0	3003.7	2053.9	1454.0	1299.8
45°	3276.0	2814.4	1625.2	1110.4	1027.5
47.5°	3199.4	2555.9	1181.7	826.5	774.3
50°	3116.5	2200.7	825.4	599.9	557.3
52.5°	3025.0	1721.0	556.3	416.9	393.5
55°	2922.9	1203.0	380.8	294.6	272.3
57.5°	2804.8	782.8	276.5	222.3	207.4
60°	2665.5	499.9	215.9	176.6	168.1
62.5°	2482.5	351.0	177.6	145.7	138.3
65°	2214.5	277.6	150.0	121.3	112.7
67.5°	1875.2	235.1	128.7	102.1	96.8
70°	1511.4	204.2	111.7	88.3	85.1
72.5°	1161.5	178.7	96.8	78.7	76.6
75°	841.3	156.4	86.2	72.3	69.1
77.5°	582.9	135.1	76.6	64.9	62.8
80°	376.5	117.0	68.1	59.6	58.5
82.5°	215.9	97.9	61.7	57.4	56.4
85°	103.2	81.9	55.3	50.0	44.7
87.5°	33.0	60.6	43.6	38.3	34.0
90°	4.3	42.5	34.0	29.8	27.7
92.5°	4.3	23.4	24.5	24.5	23.4
95°	3.2	5.3	11.7	18.1	17.0
97.5°	3.2	2.1	7.4	12.8	12.8
100°	2.1	1.1	3.2	8.5	8.5
102.5°	2.1	1.1	1.1	5.3	5.3
105°	1.1	0.0	1.1	2.1	2.1
107.5°	1.1	1.1	1.1	2.1	1.1
110°	1.1	1.1	1.1	2.1	1.1



TEST NUMBER: P895293

CATALOG NUMBER: 8TMB-SC3-A-UNV-CC93-MID-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	1.1	1.1	2.1	1.1
115°	1.1	1.1	1.1	2.1	1.1
117.5°	1.1	1.1	1.1	2.1	1.1
120°	1.1	1.1	1.1	2.1	1.1
122.5°	1.1	1.1	1.1	2.1	1.1
125°	1.1	1.1	1.1	2.1	1.1
127.5°	1.1	1.1	1.1	2.1	1.1
130°	1.1	1.1	2.1	2.1	1.1
132.5°	1.1	1.1	2.1	2.1	1.1
135°	1.1	1.1	2.1	2.1	1.1
137.5°	1.1	1.1	2.1	2.1	2.1
140°	2.1	1.1	2.1	2.1	2.1
142.5°	2.1	2.1	2.1	3.2	2.1
145°	2.1	2.1	2.1	3.2	2.1
147.5°	2.1	2.1	3.2	3.2	2.1
150°	2.1	2.1	3.2	3.2	2.1
152.5°	2.1	2.1	3.2	3.2	3.2
155°	2.1	2.1	3.2	4.3	3.2
157.5°	2.1	2.1	3.2	4.3	3.2
160°	2.1	3.2	4.3	4.3	3.2
162.5°	2.1	3.2	4.3	4.3	4.3
165°	2.1	3.2	4.3	4.3	4.3
167.5°	3.2	3.2	4.3	5.3	4.3
170°	3.2	3.2	4.3	5.3	4.3
172.5°	3.2	3.2	4.3	5.3	4.3
175°	3.2	3.2	4.3	5.3	4.3
177.5°	3.2	3.2	4.3	5.3	5.3
180°	4.3	4.3	4.3	4.3	4.3

(END OF REPORT)