

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: P895283

Luminaire Tested: 8TMB-SC3-A-UNV-CC83-MID-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895283
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-MID-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTIC, 80CRI, 3500K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

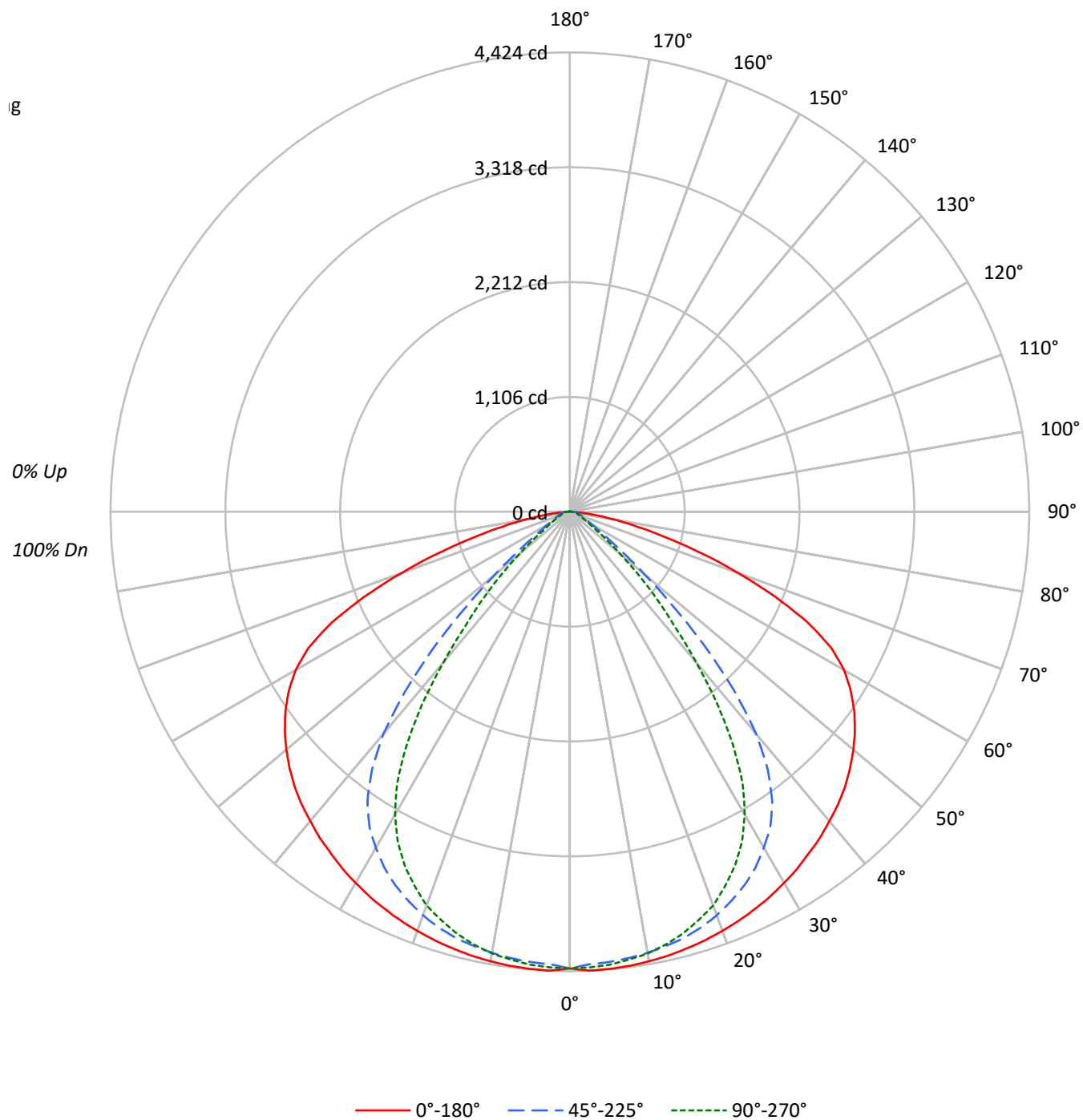
Lumens per Lamp: N/A
Luminaire Lumens: 9012.9 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.15 / 1.23
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

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: P895283

CATALOG NUMBER: 8TMB-SC3-A-UNV-CC83-MID-3500K

Luminous Intensity Polar Plot



TEST NUMBER: P895283

CATALOG NUMBER: 8TMB-SC3-A-UNV-CC83-MID-3500K

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°	22330	22330	22330
5°	22526	22192	22322
10°	22668	22241	22272
15°	22893	22337	22107
20°	23217	22356	21810
25°	23649	22259	21072
30°	24200	21910	19748
35°	24891	21067	16979
40°	25778	18502	12550
45°	26913	13351	8441
50°	28164	7459	5037
55°	29602	3856	2757
60°	30967	2509	1952
65°	30438	2061	1550
70°	25671	1896	1445
75°	18883	1933	1552
80°	12597	2278	1957
85°	6876	3689	2978

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 62.5°

Luminance: 31231 cd/sqm

TEST NUMBER: P895283

CATALOG NUMBER: 8TMB-SC3-A-UNV-CC83-MID-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.5	4.6
10°-20°	1206.4	13.4
20°-30°	1835.2	20.4
30°-40°	2095.9	23.3
40°-50°	1690.8	18.8
50°-60°	925.5	10.3
60°-70°	488.0	5.4
70°-80°	239.3	2.7
80°-90°	84.3	0.9
90°-100°	18.1	0.2
100°-110°	2.5	0.0
110°-120°	1.5	0.0
120°-130°	1.4	0.0
130°-140°	1.4	0.0
140°-150°	1.7	0.0
150°-160°	1.6	0.0
160°-170°	1.2	0.0
170°-180°	0.5	0.0
0°-30°	3459.1	38.4
0°-40°	5555.0	61.6
0°-60°	8171.4	90.7
0°-90°	8983.0	99.7
90°-120°	22.1	0.2
90°-150°	26.6	0.3
90°-180°	30.0	0.3
0°-180°	9012.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4397	4397	4397	4397	4397	
5°	4419	4405	4353	4392	4378	421
15°	4354	4327	4248	4241	4204	1232
25°	4220	4160	3972	3837	3760	1950
35°	4015	3846	3398	2936	2738	2519
45°	3747	3219	1859	1270	1175	2892
55°	3343	1376	436	337	311	2983
65°	2533	318	172	139	129	2450
75°	962	179	98	83	79	1063
85°	118	94	63	57	51	163
90°	5	49	39	34	32	7
95°	4	6	13	21	20	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	4	2	2
155°	2	2	4	5	4	1
165°	2	4	5	5	5	1
175°	4	4	5	6	5	0
180°	5	5	5	5	5	

TEST NUMBER: P895283

CATALOG NUMBER: 8TMB-SC3-A-UNV-CC83-MID-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4396.7	4396.7	4396.7	4396.7	4396.7
2.5°	4423.5	4411.3	4361.4	4404.0	4391.8
5°	4418.6	4405.2	4352.9	4391.8	4378.5
7.5°	4410.1	4393.1	4335.9	4371.2	4350.5
10°	4395.5	4378.5	4312.8	4340.7	4318.8
12.5°	4378.5	4355.3	4282.4	4297.0	4269.0
15°	4354.1	4327.4	4248.3	4241.0	4204.5
17.5°	4327.4	4294.5	4198.4	4166.8	4123.0
20°	4295.7	4255.6	4136.4	4074.3	4035.4
22.5°	4260.5	4208.1	4058.5	3963.6	3902.8
25°	4220.3	4159.5	3972.1	3837.1	3760.4
27.5°	4177.7	4095.0	3867.5	3689.9	3586.5
30°	4126.6	4026.9	3736.1	3496.4	3367.5
32.5°	4075.5	3941.7	3595.0	3247.0	3093.8
35°	4014.7	3845.6	3397.9	2935.6	2738.5
37.5°	3957.5	3730.0	3131.5	2545.1	2333.4
40°	3888.2	3593.8	2790.8	2096.2	1893.0
42.5°	3822.5	3435.6	2349.2	1663.1	1486.7
45°	3747.1	3219.1	1858.9	1270.1	1175.2
47.5°	3659.5	2923.4	1351.6	945.3	885.7
50°	3564.6	2517.1	944.1	686.1	637.5
52.5°	3459.9	1968.4	636.3	476.9	450.1
55°	3343.2	1375.9	435.5	337.0	311.4
57.5°	3208.1	895.4	316.3	254.3	237.2
60°	3048.7	571.8	247.0	202.0	192.2
62.5°	2839.5	401.5	203.2	166.7	158.2
65°	2532.9	317.5	171.5	138.7	129.0
67.5°	2144.8	268.9	147.2	116.8	110.7
70°	1728.8	233.6	127.7	101.0	97.3
72.5°	1328.5	204.4	110.7	90.0	87.6
75°	962.3	178.8	98.5	82.7	79.1
77.5°	666.7	154.5	87.6	74.2	71.8
80°	430.7	133.8	77.9	68.1	66.9
82.5°	247.0	111.9	70.6	65.7	64.5
85°	118.0	93.7	63.3	57.2	51.1
87.5°	37.7	69.3	49.9	43.8	38.9
90°	4.9	48.7	38.9	34.1	31.6
92.5°	4.9	26.8	28.0	28.0	26.8
95°	3.6	6.1	13.4	20.7	19.5
97.5°	3.6	2.4	8.5	14.6	14.6
100°	2.4	1.2	3.6	9.7	9.7
102.5°	2.4	1.2	1.2	6.1	6.1
105°	1.2	0.0	1.2	2.4	2.4
107.5°	1.2	1.2	1.2	2.4	1.2
110°	1.2	1.2	1.2	2.4	1.2



TEST NUMBER: P895283

CATALOG NUMBER: 8TMB-SC3-A-UNV-CC83-MID-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	1.2	1.2	2.4	1.2
115°	1.2	1.2	1.2	2.4	1.2
117.5°	1.2	1.2	1.2	2.4	1.2
120°	1.2	1.2	1.2	2.4	1.2
122.5°	1.2	1.2	1.2	2.4	1.2
125°	1.2	1.2	1.2	2.4	1.2
127.5°	1.2	1.2	1.2	2.4	1.2
130°	1.2	1.2	2.4	2.4	1.2
132.5°	1.2	1.2	2.4	2.4	1.2
135°	1.2	1.2	2.4	2.4	1.2
137.5°	1.2	1.2	2.4	2.4	2.4
140°	2.4	1.2	2.4	2.4	2.4
142.5°	2.4	2.4	2.4	3.6	2.4
145°	2.4	2.4	2.4	3.6	2.4
147.5°	2.4	2.4	3.6	3.6	2.4
150°	2.4	2.4	3.6	3.6	2.4
152.5°	2.4	2.4	3.6	3.6	3.6
155°	2.4	2.4	3.6	4.9	3.6
157.5°	2.4	2.4	3.6	4.9	3.6
160°	2.4	3.6	4.9	4.9	3.6
162.5°	2.4	3.6	4.9	4.9	4.9
165°	2.4	3.6	4.9	4.9	4.9
167.5°	3.6	3.6	4.9	6.1	4.9
170°	3.6	3.6	4.9	6.1	4.9
172.5°	3.6	3.6	4.9	6.1	4.9
175°	3.6	3.6	4.9	6.1	4.9
177.5°	3.6	3.6	4.9	6.1	6.1
180°	4.9	4.9	4.9	4.9	4.9

(END OF REPORT)