

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: P895284

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895284
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-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTIC, 80CRI, 4000K CCT, MID lumen settin
Light Source: -
Ballast/Driver: -

Summary

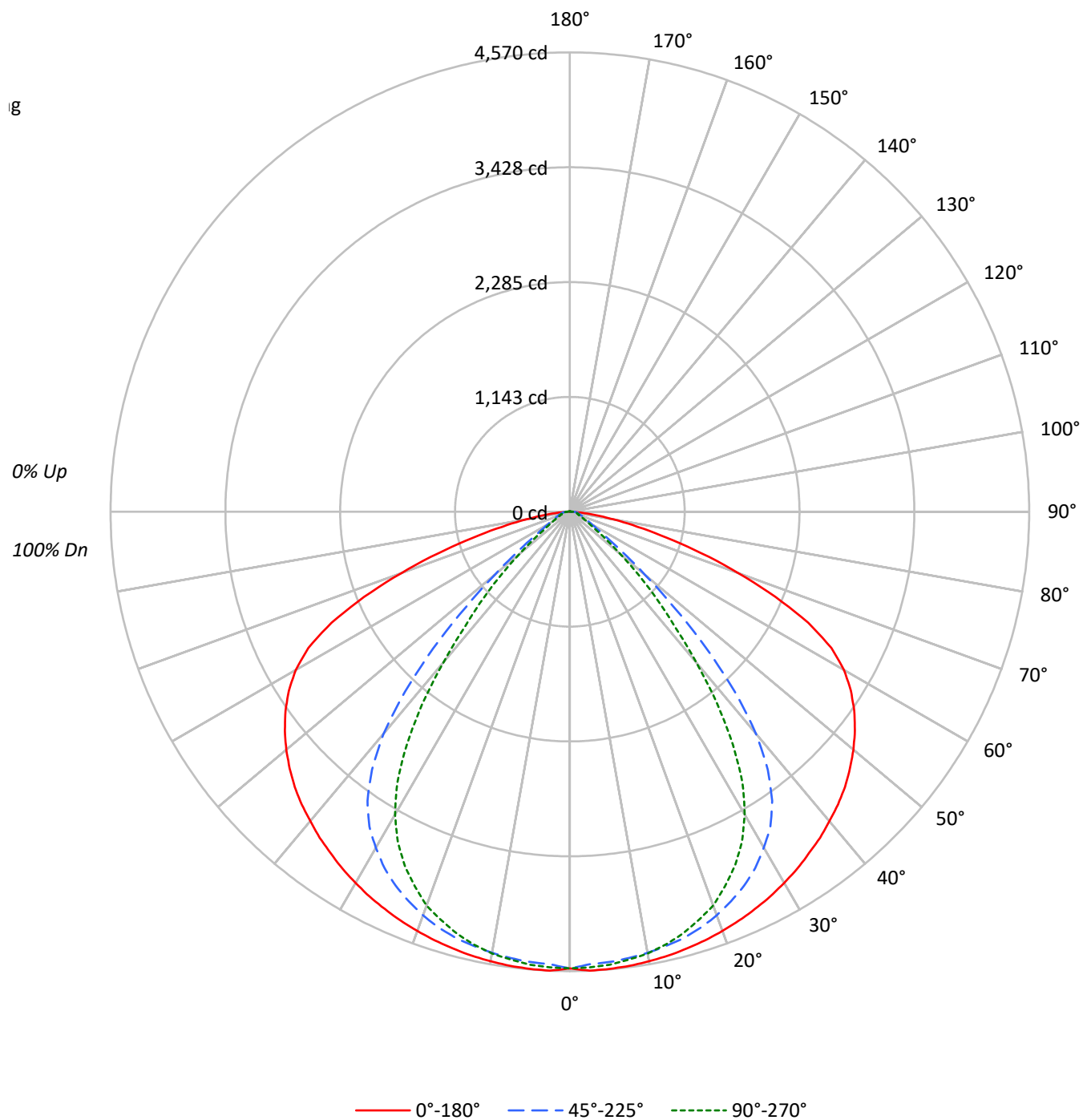
Lumens per Lamp: N/A
Luminaire Lumens: 9311.1 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.15 / 1.23
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P895284

CATALOG NUMBER: 8TMB-SC3-A-UNV-CC83-MID-4000K

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°	23068	23068	23068
5°	23271	22925	23060
10°	23417	22977	23009
15°	23650	23075	22838
20°	23985	23095	22531
25°	24431	22995	21769
30°	25000	22634	20401
35°	25714	21763	17540
40°	26630	19114	12965
45°	27802	13793	8720
50°	29095	7706	5204
55°	30581	3984	2848
60°	31991	2591	2017
65°	31446	2129	1601
70°	26519	1960	1492
75°	19507	1998	1603
80°	13012	2351	2021
85°	7103	3811	3077

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 62.5°

Luminance: 32264 cd/sqm

TEST NUMBER: P895284

CATALOG NUMBER: 8TMB-SC3-A-UNV-CC83-MID-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.3	4.6
10°-20°	1246.3	13.4
20°-30°	1895.9	20.4
30°-40°	2165.2	23.3
40°-50°	1746.7	18.8
50°-60°	956.1	10.3
60°-70°	504.1	5.4
70°-80°	247.2	2.7
80°-90°	87.1	0.9
90°-100°	18.7	0.2
100°-110°	2.6	0.0
110°-120°	1.6	0.0
120°-130°	1.5	0.0
130°-140°	1.5	0.0
140°-150°	1.8	0.0
150°-160°	1.6	0.0
160°-170°	1.3	0.0
170°-180°	0.5	0.0
0°-30°	3573.5	38.4
0°-40°	5738.7	61.6
0°-60°	8441.6	90.7
0°-90°	9280.0	99.7
90°-120°	22.9	0.2
90°-150°	27.7	0.3
90°-180°	31.0	0.3
0°-180°	9311.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4542	4542	4542	4542	4542	
5°	4565	4551	4497	4537	4523	435
15°	4498	4470	4389	4381	4344	1273
25°	4360	4297	4104	3964	3885	2014
35°	4147	3973	3510	3033	2829	2602
45°	3871	3326	1920	1312	1214	2988
55°	3454	1421	450	348	322	3081
65°	2617	328	177	143	133	2531
75°	994	185	102	86	82	1098
85°	122	97	65	59	53	168
90°	5	50	40	35	33	7
95°	4	6	14	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: P895284

CATALOG NUMBER: 8TMB-SC3-A-UNV-CC83-MID-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4542.1	4542.1	4542.1	4542.1	4542.1
2.5°	4569.7	4557.2	4505.6	4549.6	4537.1
5°	4564.7	4550.9	4496.8	4537.1	4523.2
7.5°	4555.9	4538.3	4479.2	4515.7	4494.3
10°	4540.8	4523.2	4455.4	4484.3	4461.6
12.5°	4523.2	4499.3	4423.9	4439.0	4410.1
15°	4498.1	4470.4	4388.7	4381.2	4343.5
17.5°	4470.4	4436.5	4337.2	4304.5	4259.3
20°	4437.8	4396.3	4273.1	4209.0	4168.8
22.5°	4401.3	4347.3	4192.7	4094.7	4031.8
25°	4359.8	4297.0	4103.5	3964.0	3884.8
27.5°	4315.9	4230.4	3995.4	3811.9	3705.1
30°	4263.1	4160.0	3859.6	3612.0	3478.8
32.5°	4210.3	4072.0	3713.8	3354.4	3196.0
35°	4147.4	3972.7	3510.2	3032.7	2829.1
37.5°	4088.4	3853.4	3235.0	2629.2	2410.5
40°	4016.7	3712.6	2883.1	2165.5	1955.6
42.5°	3948.9	3549.2	2426.9	1718.0	1535.8
45°	3870.9	3325.5	1920.4	1312.1	1214.1
47.5°	3780.5	3020.1	1396.3	976.5	915.0
50°	3682.4	2600.3	975.3	708.8	658.6
52.5°	3574.3	2033.5	657.3	492.7	465.0
55°	3453.7	1421.4	449.9	348.1	321.7
57.5°	3314.2	925.0	326.8	262.7	245.1
60°	3149.5	590.7	255.1	208.6	198.6
62.5°	2933.4	414.7	209.9	172.2	163.4
65°	2616.7	328.0	177.2	143.3	133.2
67.5°	2215.7	277.8	152.1	120.7	114.4
70°	1785.9	241.3	132.0	104.3	100.5
72.5°	1372.4	211.1	114.4	93.0	90.5
75°	994.1	184.7	101.8	85.5	81.7
77.5°	688.7	159.6	90.5	76.7	74.2
80°	444.9	138.2	80.4	70.4	69.1
82.5°	255.1	115.6	72.9	67.9	66.6
85°	121.9	96.8	65.4	59.1	52.8
87.5°	39.0	71.6	51.5	45.2	40.2
90°	5.0	50.3	40.2	35.2	32.7
92.5°	5.0	27.6	28.9	28.9	27.6
95°	3.8	6.3	13.8	21.4	20.1
97.5°	3.8	2.5	8.8	15.1	15.1
100°	2.5	1.3	3.8	10.1	10.1
102.5°	2.5	1.3	1.3	6.3	6.3
105°	1.3	0.0	1.3	2.5	2.5
107.5°	1.3	1.3	1.3	2.5	1.3
110°	1.3	1.3	1.3	2.5	1.3



TEST NUMBER: P895284

CATALOG NUMBER: 8TMB-SC3-A-UNV-CC83-MID-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	1.3	1.3	2.5	1.3
115°	1.3	1.3	1.3	2.5	1.3
117.5°	1.3	1.3	1.3	2.5	1.3
120°	1.3	1.3	1.3	2.5	1.3
122.5°	1.3	1.3	1.3	2.5	1.3
125°	1.3	1.3	1.3	2.5	1.3
127.5°	1.3	1.3	1.3	2.5	1.3
130°	1.3	1.3	2.5	2.5	1.3
132.5°	1.3	1.3	2.5	2.5	1.3
135°	1.3	1.3	2.5	2.5	1.3
137.5°	1.3	1.3	2.5	2.5	2.5
140°	2.5	1.3	2.5	2.5	2.5
142.5°	2.5	2.5	2.5	3.8	2.5
145°	2.5	2.5	2.5	3.8	2.5
147.5°	2.5	2.5	3.8	3.8	2.5
150°	2.5	2.5	3.8	3.8	2.5
152.5°	2.5	2.5	3.8	3.8	3.8
155°	2.5	2.5	3.8	5.0	3.8
157.5°	2.5	2.5	3.8	5.0	3.8
160°	2.5	3.8	5.0	5.0	3.8
162.5°	2.5	3.8	5.0	5.0	5.0
165°	2.5	3.8	5.0	5.0	5.0
167.5°	3.8	3.8	5.0	6.3	5.0
170°	3.8	3.8	5.0	6.3	5.0
172.5°	3.8	3.8	5.0	6.3	5.0
175°	3.8	3.8	5.0	6.3	5.0
177.5°	3.8	3.8	5.0	6.3	6.3
180°	5.0	5.0	5.0	5.0	5.0

(END OF REPORT)