

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: P895319

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-14)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-AOL-UNV-CC83-MID-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 800
3500K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

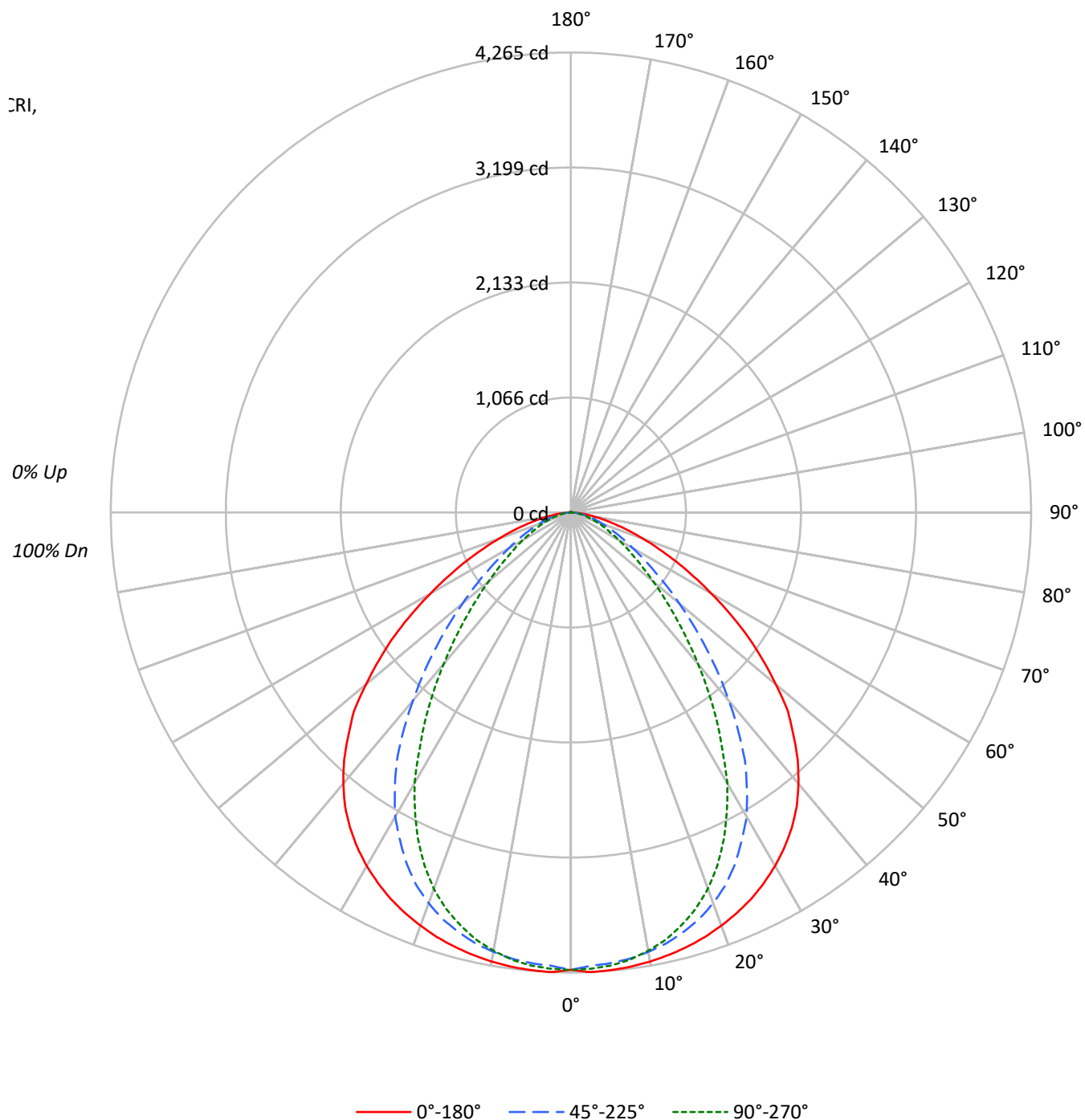
Lumens per Lamp: N/A
Luminaire Lumens: 8470.8 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

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	104	101	98	100	98	95		96	94	92		93
2	102	95	89	85	100	93	88	84	90	85	82		87	83	80		84
3	94	85	78	73	92	84	77	72	81	75	71		78	73	70		76
4	87	77	69	63	85	76	68	63	73	67	62		71	66	61		69
5	81	70	62	56	79	69	61	55	67	60	55		65	59	54		63
6	75	63	55	50	74	63	55	49	61	54	49		59	53	49		58
7	70	58	50	45	69	57	50	44	56	49	44		54	48	44		53
8	66	53	46	40	64	53	45	40	51	45	40		50	44	40		49
9	62	49	42	37	60	49	42	37	48	41	36		47	41	36		46
10	58	46	38	34	57	45	38	33	44	38	33		43	37	33		43

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21537	21537	21537
5°	21712	21383	21495
10°	21800	21330	21273
15°	21913	21177	20825
20°	22031	20835	20065
25°	22154	20157	18766
30°	22193	19097	16993
35°	22121	17445	14616
40°	21751	15097	12146
45°	20943	12686	9829
50°	19598	10332	7872
55°	17708	8305	6311
60°	15272	6759	5227
65°	12923	5628	4297
70°	10549	4787	3648
75°	8449	4034	3102
80°	6581	3451	2667
85°	5105	3048	2412

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20943 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.6	4.7
10°-20°	1142.7	13.5
20°-30°	1665.6	19.7
30°-40°	1795.4	21.2
40°-50°	1505.1	17.8
50°-60°	1019.0	12.0
60°-70°	581.0	6.9
70°-80°	265.7	3.1
80°-90°	69.6	0.8
90°-100°	8.6	0.1
100°-110°	5.8	0.1
110°-120°	3.2	0.0
120°-130°	1.8	0.0
130°-140°	1.7	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°	3209.9	37.9
0°-40°	5005.2	59.1
0°-60°	7529.3	88.9
0°-90°	8445.6	99.7
90°-120°	17.5	0.2
90°-150°	22.6	0.3
90°-180°	25.0	0.3
0°-180°	8470.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4241	4241	4241	4241	4241	
5°	4259	4246	4194	4228	4216	405
15°	4168	4131	4028	4001	3961	1178
25°	3954	3849	3597	3432	3349	1821
35°	3568	3299	2814	2469	2358	2227
45°	2916	2433	1766	1456	1368	2244
55°	2000	1463	938	760	713	1781
65°	1075	748	468	380	358	1073
75°	431	316	206	168	158	470
85°	88	74	52	44	41	102
90°	12	12	7	6	5	12
95°	18	11	6	4	4	14
105°	12	8	4	2	1	13
115°	6	5	2	1	1	6
125°	2	2	2	1	1	3
135°	1	2	2	2	1	2
145°	2	2	2	2	2	2
155°	2	2	2	4	4	1
165°	2	4	4	4	4	1
175°	4	4	4	5	5	0
180°	4	4	4	4	4	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4240.6	4240.6	4240.6	4240.6	4240.6
2.5°	4264.9	4254.0	4205.3	4245.5	4233.3
5°	4258.8	4245.5	4194.4	4228.4	4216.3
7.5°	4246.7	4229.6	4172.5	4198.0	4182.2
10°	4227.2	4206.5	4136.0	4150.6	4125.0
12.5°	4200.4	4174.9	4091.0	4087.3	4056.9
15°	4167.6	4131.1	4027.7	4000.9	3960.8
17.5°	4127.5	4081.2	3952.3	3898.8	3850.1
20°	4076.4	4016.8	3855.0	3769.8	3712.6
22.5°	4018.0	3937.7	3741.8	3605.6	3543.6
25°	3953.5	3848.9	3597.1	3431.6	3348.9
27.5°	3873.2	3741.8	3429.2	3215.1	3130.0
30°	3784.4	3617.8	3256.5	2982.8	2897.6
32.5°	3683.4	3475.4	3036.3	2732.2	2613.0
35°	3567.9	3299.0	2813.7	2469.4	2357.5
37.5°	3437.7	3115.4	2547.3	2204.2	2091.1
40°	3280.8	2897.6	2277.2	1937.8	1832.0
42.5°	3111.7	2676.2	2018.1	1684.8	1593.6
45°	2915.9	2432.9	1766.3	1456.1	1368.5
47.5°	2727.3	2187.2	1530.3	1246.9	1175.1
50°	2480.4	1925.7	1307.7	1055.9	996.3
52.5°	2239.5	1683.6	1117.9	902.6	846.7
55°	1999.9	1463.4	937.9	760.3	712.8
57.5°	1746.8	1248.1	789.5	643.5	611.9
60°	1503.5	1062.0	665.4	540.1	514.6
62.5°	1280.9	890.5	563.2	456.2	431.8
65°	1075.4	748.1	468.3	379.5	357.6
67.5°	880.7	615.5	390.5	316.3	300.5
70°	710.4	498.7	322.4	260.3	245.7
72.5°	563.2	399.0	257.9	212.9	197.1
75°	430.6	316.3	205.6	167.9	158.1
77.5°	321.1	238.4	158.1	128.9	121.6
80°	225.0	172.7	118.0	97.3	91.2
82.5°	153.3	119.2	82.7	68.1	64.5
85°	87.6	74.2	52.3	43.8	41.4
87.5°	45.0	38.9	28.0	20.7	18.2
90°	12.2	12.2	7.3	6.1	4.9
92.5°	19.5	10.9	7.3	4.9	3.6
95°	18.2	10.9	6.1	3.6	3.6
97.5°	17.0	10.9	4.9	3.6	2.4
100°	15.8	9.7	4.9	2.4	2.4
102.5°	14.6	9.7	4.9	2.4	2.4
105°	12.2	8.5	3.6	2.4	1.2
107.5°	10.9	7.3	3.6	2.4	1.2
110°	8.5	6.1	3.6	2.4	1.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.3	6.1	2.4	2.4	1.2
115°	6.1	4.9	2.4	1.2	1.2
117.5°	4.9	3.6	2.4	1.2	1.2
120°	3.6	3.6	2.4	1.2	1.2
122.5°	3.6	2.4	2.4	1.2	1.2
125°	2.4	2.4	2.4	1.2	1.2
127.5°	2.4	2.4	2.4	1.2	1.2
130°	2.4	2.4	2.4	1.2	1.2
132.5°	2.4	2.4	2.4	2.4	1.2
135°	1.2	2.4	2.4	2.4	1.2
137.5°	2.4	2.4	2.4	2.4	2.4
140°	2.4	2.4	2.4	2.4	2.4
142.5°	2.4	2.4	2.4	2.4	2.4
145°	2.4	2.4	2.4	2.4	2.4
147.5°	2.4	2.4	2.4	2.4	2.4
150°	2.4	2.4	2.4	2.4	2.4
152.5°	2.4	2.4	2.4	2.4	2.4
155°	2.4	2.4	2.4	3.6	3.6
157.5°	2.4	2.4	3.6	3.6	3.6
160°	2.4	2.4	3.6	3.6	3.6
162.5°	2.4	2.4	3.6	3.6	3.6
165°	2.4	3.6	3.6	3.6	3.6
167.5°	2.4	3.6	3.6	3.6	4.9
170°	2.4	3.6	3.6	4.9	4.9
172.5°	2.4	3.6	3.6	4.9	4.9
175°	3.6	3.6	3.6	4.9	4.9
177.5°	3.6	3.6	3.6	4.9	4.9
180°	3.6	3.6	3.6	3.6	3.6

(END OF REPORT)