

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: P895320

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895320
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-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 800
4000K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

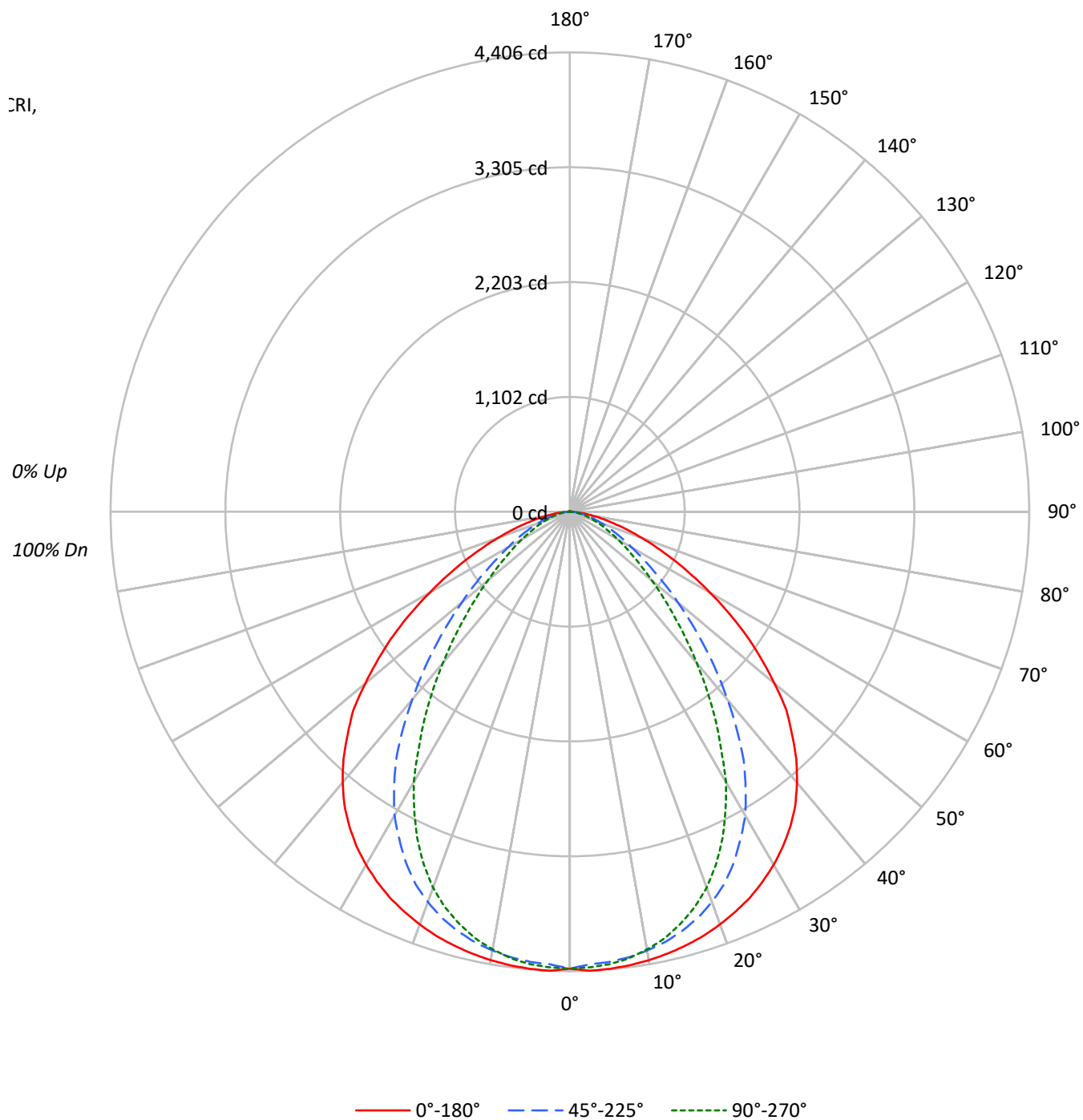
Lumens per Lamp: N/A
Luminaire Lumens: 8752.0 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

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	66	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°	22251	22251	22251
5°	22432	22093	22208
10°	22523	22037	21979
15°	22639	21880	21516
20°	22762	21526	20731
25°	22889	20826	19389
30°	22929	19731	17556
35°	22854	18023	15101
40°	22472	15599	12549
45°	21638	13107	10155
50°	20247	10675	8133
55°	18295	8580	6521
60°	15779	6983	5400
65°	13351	5815	4440
70°	10899	4946	3770
75°	8730	4168	3206
80°	6800	3565	2758
85°	5274	3147	2488

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21638 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.9	4.7
10°-20°	1180.6	13.5
20°-30°	1720.9	19.7
30°-40°	1854.9	21.2
40°-50°	1555.0	17.8
50°-60°	1052.8	12.0
60°-70°	600.3	6.9
70°-80°	274.5	3.1
80°-90°	71.9	0.8
90°-100°	8.9	0.1
100°-110°	6.0	0.1
110°-120°	3.3	0.0
120°-130°	1.9	0.0
130°-140°	1.8	0.0
140°-150°	1.6	0.0
150°-160°	1.3	0.0
160°-170°	1.0	0.0
170°-180°	0.4	0.0
0°-30°	3316.4	37.9
0°-40°	5171.3	59.1
0°-60°	7779.0	88.9
0°-90°	8725.8	99.7
90°-120°	18.2	0.2
90°-150°	23.5	0.3
90°-180°	26.0	0.3
0°-180°	8752.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4381	4381	4381	4381	4381	
5°	4400	4386	4334	4369	4356	419
15°	4306	4268	4161	4134	4092	1217
25°	4085	3977	3716	3546	3460	1882
35°	3686	3408	2907	2551	2436	2301
45°	3013	2514	1825	1504	1414	2319
55°	2066	1512	969	786	736	1840
65°	1111	773	484	392	370	1109
75°	445	327	212	173	163	485
85°	90	77	54	45	43	106
90°	13	13	8	6	5	13
95°	19	11	6	4	4	15
105°	13	9	4	2	1	14
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°	4381.3	4381.3	4381.3	4381.3	4381.3
2.5°	4406.4	4395.1	4344.8	4386.3	4373.7
5°	4400.1	4386.3	4333.5	4368.7	4356.1
7.5°	4387.5	4369.9	4310.9	4337.3	4320.9
10°	4367.4	4346.1	4273.2	4288.3	4261.9
12.5°	4339.8	4313.4	4226.7	4222.9	4191.5
15°	4305.8	4268.1	4161.3	4133.7	4092.2
17.5°	4264.4	4216.6	4083.4	4028.1	3977.8
20°	4211.6	4150.0	3982.8	3894.9	3835.8
22.5°	4151.3	4068.3	3866.0	3725.2	3661.1
25°	4084.6	3976.6	3716.4	3545.5	3460.0
27.5°	4001.7	3866.0	3543.0	3321.8	3233.8
30°	3909.9	3737.8	3364.5	3081.7	2993.7
32.5°	3805.6	3590.7	3137.0	2822.8	2699.6
35°	3686.2	3408.5	2907.0	2551.3	2435.7
37.5°	3551.8	3218.7	2631.8	2277.3	2160.5
40°	3389.6	2993.7	2352.8	2002.1	1892.8
42.5°	3214.9	2765.0	2085.1	1740.7	1646.4
45°	3012.6	2513.6	1824.9	1504.4	1413.9
47.5°	2817.8	2259.8	1581.1	1288.2	1214.1
50°	2562.6	1989.5	1351.1	1090.9	1029.3
52.5°	2313.8	1739.4	1155.0	932.6	874.7
55°	2066.2	1511.9	969.0	785.5	736.5
57.5°	1804.8	1289.5	815.7	664.9	632.2
60°	1553.4	1097.2	687.5	558.0	531.6
62.5°	1323.4	920.0	581.9	471.3	446.2
65°	1111.0	772.9	483.9	392.1	369.5
67.5°	909.9	635.9	403.4	326.8	310.4
70°	734.0	515.3	333.1	269.0	253.9
72.5°	581.9	412.2	266.4	219.9	203.6
75°	444.9	326.8	212.4	173.4	163.4
77.5°	331.8	246.3	163.4	133.2	125.7
80°	232.5	178.5	121.9	100.5	94.3
82.5°	158.4	123.2	85.5	70.4	66.6
85°	90.5	76.7	54.0	45.2	42.7
87.5°	46.5	40.2	28.9	21.4	18.9
90°	12.6	12.6	7.5	6.3	5.0
92.5°	20.1	11.3	7.5	5.0	3.8
95°	18.9	11.3	6.3	3.8	3.8
97.5°	17.6	11.3	5.0	3.8	2.5
100°	16.3	10.1	5.0	2.5	2.5
102.5°	15.1	10.1	5.0	2.5	2.5
105°	12.6	8.8	3.8	2.5	1.3
107.5°	11.3	7.5	3.8	2.5	1.3
110°	8.8	6.3	3.8	2.5	1.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.5	6.3	2.5	2.5	1.3
115°	6.3	5.0	2.5	1.3	1.3
117.5°	5.0	3.8	2.5	1.3	1.3
120°	3.8	3.8	2.5	1.3	1.3
122.5°	3.8	2.5	2.5	1.3	1.3
125°	2.5	2.5	2.5	1.3	1.3
127.5°	2.5	2.5	2.5	1.3	1.3
130°	2.5	2.5	2.5	1.3	1.3
132.5°	2.5	2.5	2.5	2.5	1.3
135°	1.3	2.5	2.5	2.5	1.3
137.5°	2.5	2.5	2.5	2.5	2.5
140°	2.5	2.5	2.5	2.5	2.5
142.5°	2.5	2.5	2.5	2.5	2.5
145°	2.5	2.5	2.5	2.5	2.5
147.5°	2.5	2.5	2.5	2.5	2.5
150°	2.5	2.5	2.5	2.5	2.5
152.5°	2.5	2.5	2.5	2.5	2.5
155°	2.5	2.5	2.5	3.8	3.8
157.5°	2.5	2.5	3.8	3.8	3.8
160°	2.5	2.5	3.8	3.8	3.8
162.5°	2.5	2.5	3.8	3.8	3.8
165°	2.5	3.8	3.8	3.8	3.8
167.5°	2.5	3.8	3.8	3.8	5.0
170°	2.5	3.8	3.8	5.0	5.0
172.5°	2.5	3.8	3.8	5.0	5.0
175°	3.8	3.8	3.8	5.0	5.0
177.5°	3.8	3.8	3.8	5.0	5.0
180°	3.8	3.8	3.8	3.8	3.8

(END OF REPORT)