

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: P895321

Luminaire Tested: 8TMB-SC3-AOL-UNV-CC83-MID-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895321
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-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 800
5000K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

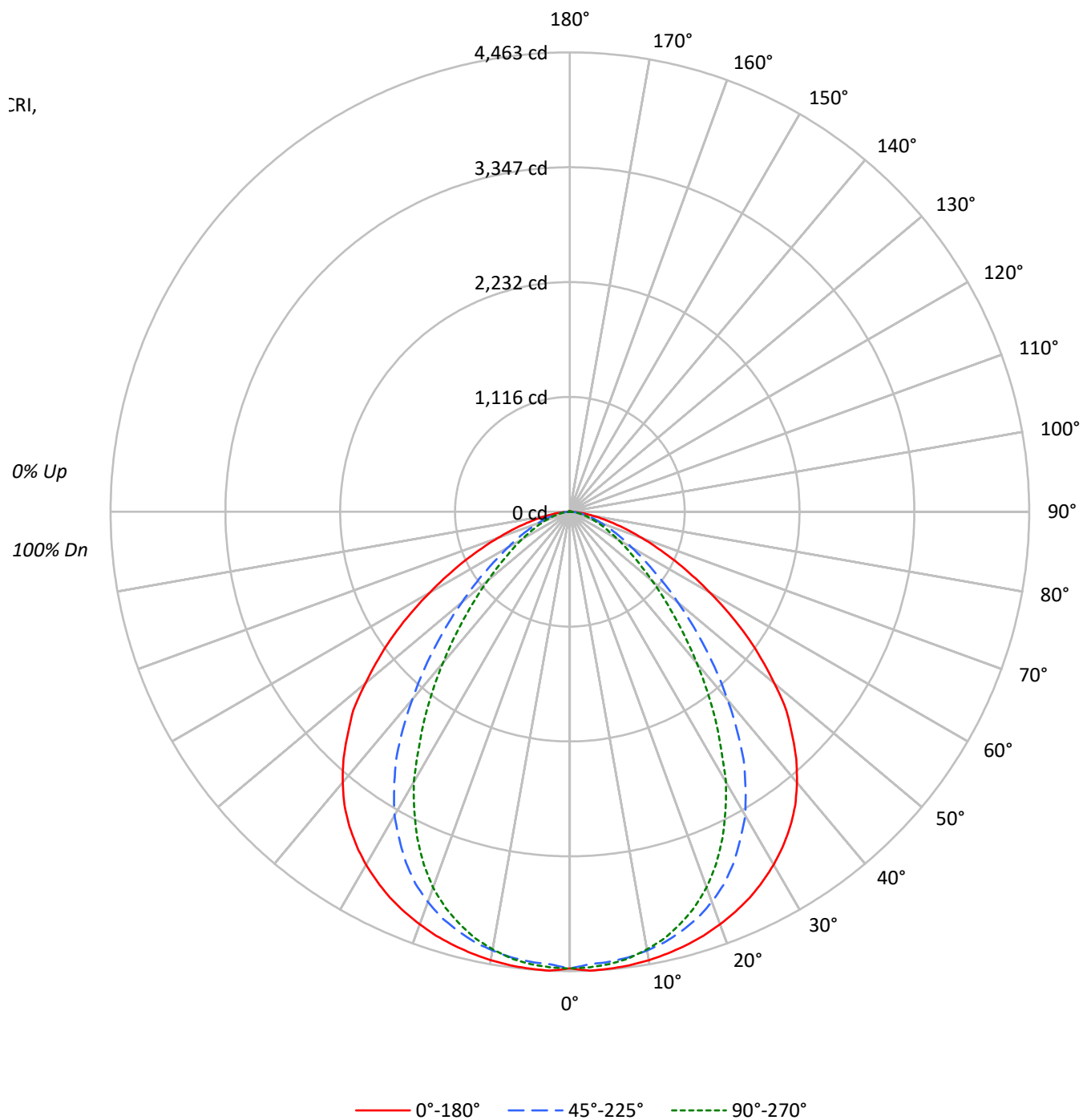
Lumens per Lamp: N/A
Luminaire Lumens: 8863.9 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	111	107	103	100	108	104	101	98	100	98	95		96	94	92		93	91	89	87
2	102	95	89	85	100	93	88	84	90	85	82		87	83	80		84	81	78	76
3	94	85	78	73	92	84	77	72	81	75	71		78	73	70		76	72	68	66
4	87	77	69	63	85	76	68	63	73	67	62		71	66	61		69	64	60	58
5	81	70	62	56	79	69	61	55	66	60	55		65	59	54		63	58	54	52
6	75	63	55	50	74	63	55	49	61	54	49		59	53	49		58	52	48	46
7	70	58	50	45	69	57	50	44	56	49	44		54	48	44		53	48	43	42
8	66	53	46	40	64	53	45	40	51	45	40		50	44	40		49	44	39	38
9	62	49	42	37	60	49	42	37	48	41	36		47	41	36		46	40	36	34
10	58	46	38	34	57	45	38	33	44	38	33		43	37	33		43	37	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22536	22536	22536
5°	22719	22376	22492
10°	22811	22319	22260
15°	22929	22160	21792
20°	23054	21801	20996
25°	23182	21092	19637
30°	23223	19983	17781
35°	23147	18254	15295
40°	22760	15798	12709
45°	21914	13274	10285
50°	20506	10812	8237
55°	18529	8690	6605
60°	15981	7073	5469
65°	13522	5890	4497
70°	11039	5009	3818
75°	8842	4221	3248
80°	6888	3612	2793
85°	5338	3187	2523

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21914 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.2	4.7
10°-20°	1195.7	13.5
20°-30°	1742.9	19.7
30°-40°	1878.6	21.2
40°-50°	1574.9	17.8
50°-60°	1066.2	12.0
60°-70°	608.0	6.9
70°-80°	278.1	3.1
80°-90°	72.8	0.8
90°-100°	9.0	0.1
100°-110°	6.1	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°	3358.8	37.9
0°-40°	5237.5	59.1
0°-60°	7878.6	88.9
0°-90°	8837.5	99.7
90°-120°	18.4	0.2
90°-150°	23.7	0.3
90°-180°	26.0	0.3
0°-180°	8863.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4437	4437	4437	4437	4437	
5°	4456	4442	4389	4425	4412	424
15°	4361	4323	4215	4187	4145	1232
25°	4137	4027	3764	3591	3504	1906
35°	3733	3452	2944	2584	2467	2331
45°	3051	2546	1848	1524	1432	2349
55°	2093	1531	981	796	746	1864
65°	1125	783	490	397	374	1123
75°	451	331	215	176	166	491
85°	92	78	55	46	43	107
90°	13	13	8	6	5	13
95°	19	12	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°	4437.3	4437.3	4437.3	4437.3	4437.3
2.5°	4462.8	4451.3	4400.4	4442.4	4429.7
5°	4456.4	4442.4	4389.0	4424.6	4411.9
7.5°	4443.7	4425.9	4366.0	4392.8	4376.2
10°	4423.3	4401.7	4327.9	4343.1	4316.4
12.5°	4395.3	4368.6	4280.8	4276.9	4245.1
15°	4360.9	4322.8	4214.6	4186.6	4144.6
17.5°	4318.9	4270.6	4135.6	4079.6	4028.7
20°	4265.5	4203.1	4033.8	3944.7	3884.9
22.5°	4204.4	4120.4	3915.4	3772.9	3708.0
25°	4136.9	4027.4	3764.0	3590.8	3504.3
27.5°	4052.9	3915.4	3588.3	3364.3	3275.2
30°	3960.0	3785.6	3407.5	3121.1	3032.0
32.5°	3854.3	3636.7	3177.2	2858.9	2734.2
35°	3733.4	3452.1	2944.2	2584.0	2466.9
37.5°	3597.2	3259.9	2665.4	2306.5	2188.1
40°	3433.0	3032.0	2382.9	2027.7	1917.0
42.5°	3256.1	2800.4	2111.7	1763.0	1667.5
45°	3051.1	2545.8	1848.2	1523.7	1432.0
47.5°	2853.8	2288.7	1601.3	1304.7	1229.6
50°	2595.4	2015.0	1368.4	1104.9	1042.5
52.5°	2343.4	1761.7	1169.8	944.5	885.9
55°	2092.6	1531.3	981.4	795.6	745.9
57.5°	1827.9	1306.0	826.1	673.4	640.3
60°	1573.3	1111.2	696.3	565.2	538.4
62.5°	1340.4	931.8	589.4	477.3	451.9
65°	1125.2	782.8	490.1	397.1	374.2
67.5°	921.6	644.1	408.6	331.0	314.4
70°	743.4	521.9	337.3	272.4	257.1
72.5°	589.4	417.5	269.9	222.8	206.2
75°	450.6	331.0	215.1	175.7	165.5
77.5°	336.0	249.5	165.5	134.9	127.3
80°	235.5	180.8	123.5	101.8	95.5
82.5°	160.4	124.7	86.6	71.3	67.5
85°	91.6	77.6	54.7	45.8	43.3
87.5°	47.1	40.7	29.3	21.6	19.1
90°	12.7	12.7	7.6	6.4	5.1
92.5°	20.4	11.5	7.6	5.1	3.8
95°	19.1	11.5	6.4	3.8	3.8
97.5°	17.8	11.5	5.1	3.8	2.5
100°	16.5	10.2	5.1	2.5	2.5
102.5°	15.3	10.2	5.1	2.5	2.5
105°	12.7	8.9	3.8	2.5	1.3
107.5°	11.5	7.6	3.8	2.5	1.3
110°	8.9	6.4	3.8	2.5	1.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.6	6.4	2.5	2.5	1.3
115°	6.4	5.1	2.5	1.3	1.3
117.5°	5.1	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	5.1
170°	2.5	3.8	3.8	5.1	5.1
172.5°	2.5	3.8	3.8	5.1	5.1
175°	3.8	3.8	3.8	5.1	5.1
177.5°	3.8	3.8	3.8	5.1	5.1
180°	3.8	3.8	3.8	3.8	3.8

(END OF REPORT)