

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: P895303

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-15)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-ACL-UNV-CC83-MID-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 80CRI, 5000K CC
MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

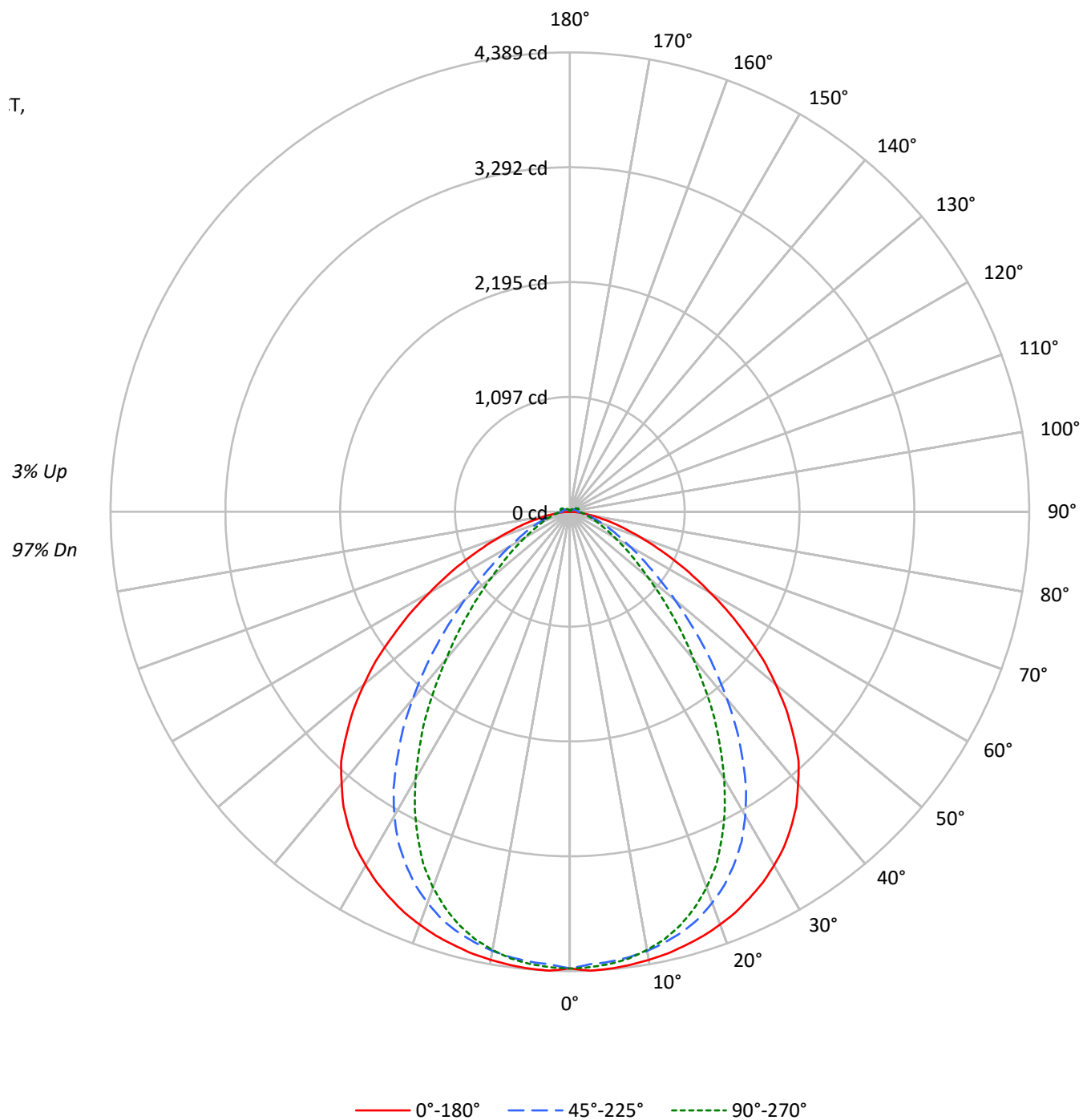
Lumens per Lamp: N/A
Luminaire Lumens: 8951.0 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.08')
CIE Type: Direct

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	118	118	118	118	115	115	115	115	110	110	110		104	104	104		100	100	100	97
1	110	106	102	99	107	103	100	97	99	96	93		94	92	90		90	89	87	85
2	101	94	88	84	99	92	87	82	88	84	80		85	81	78		82	79	76	74
3	94	85	77	72	91	83	76	71	80	74	69		77	72	68		74	70	66	64
4	87	76	68	62	84	75	67	62	72	66	61		69	64	60		67	62	59	57
5	80	69	61	55	78	68	60	55	65	59	54		63	58	53		61	56	52	50
6	75	63	55	49	73	62	54	49	60	53	48		58	52	47		56	51	47	45
7	70	57	50	44	68	57	49	44	55	48	43		53	47	43		52	46	42	40
8	65	53	45	40	64	52	45	40	51	44	39		49	43	39		48	42	38	37
9	61	49	41	36	60	48	41	36	47	40	36		46	40	35		45	39	35	33
10	58	45	38	33	56	45	38	33	44	37	33		43	37	32		42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22160	22160	22160
5°	22322	21572	21525
10°	22382	21117	20770
15°	22471	20581	19824
20°	22602	19837	18530
25°	22693	18798	16808
30°	22742	17364	14644
35°	22673	15356	12249
40°	22303	12981	9640
45°	21479	10487	7475
50°	20036	8145	5608
55°	17979	6242	4289
60°	15493	4804	3267
65°	12972	3795	2597
70°	10437	3051	2122
75°	8389	2463	1806
80°	6257	2040	1581
85°	4508	1742	1457

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21479 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.3	4.6
10°-20°	1177.4	13.2
20°-30°	1716.5	19.2
30°-40°	1844.2	20.6
40°-50°	1534.9	17.1
50°-60°	1026.6	11.5
60°-70°	587.7	6.6
70°-80°	292.2	3.3
80°-90°	119.6	1.3
90°-100°	69.4	0.8
100°-110°	61.2	0.7
110°-120°	44.9	0.5
120°-130°	28.9	0.3
130°-140°	17.2	0.2
140°-150°	9.7	0.1
150°-160°	4.9	0.1
160°-170°	2.1	0.0
170°-180°	0.5	0.0
0°-30°	3307.2	36.9
0°-40°	5151.4	57.6
0°-60°	7712.9	86.2
0°-90°	8712.3	97.3
90°-120°	175.5	2.0
90°-150°	231.3	2.6
90°-180°	239.0	2.7
0°-180°	8951.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4363	4363	4363	4363	4363	
5°	4382	4368	4316	4352	4338	417
15°	4286	4256	4155	4124	4087	1212
25°	4069	3973	3713	3526	3438	1877
35°	3684	3416	2874	2520	2410	2301
45°	3022	2511	1795	1452	1367	2323
55°	2061	1487	936	740	701	1846
65°	1104	748	471	382	362	1103
75°	444	323	233	206	200	476
85°	87	97	108	113	115	101
90°	13	41	74	88	90	12
95°	19	41	73	88	90	15
105°	13	33	65	85	89	13
115°	6	19	51	70	76	6
125°	4	13	34	51	56	3
135°	2	10	23	34	38	2
145°	2	8	15	23	27	2
155°	2	6	10	14	18	1
165°	4	5	8	9	12	1
175°	4	4	5	5	5	0
180°	4	4	4	4	4	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4363.4	4363.4	4363.4	4363.4	4363.4
2.5°	4388.8	4377.4	4327.7	4367.2	4355.7
5°	4382.5	4368.5	4316.3	4351.9	4337.9
7.5°	4368.5	4353.2	4293.4	4321.4	4306.1
10°	4348.1	4329.0	4260.3	4274.3	4250.1
12.5°	4322.7	4298.5	4213.2	4209.4	4182.6
15°	4285.7	4256.5	4154.6	4124.1	4087.2
17.5°	4247.6	4204.3	4079.5	4017.2	3966.3
20°	4197.9	4140.6	3976.4	3883.5	3819.9
22.5°	4140.6	4063.0	3860.6	3718.0	3651.9
25°	4069.4	3972.6	3713.0	3525.8	3438.0
27.5°	3993.0	3864.4	3552.6	3306.9	3206.3
30°	3901.3	3742.2	3352.7	3057.4	2949.2
32.5°	3804.6	3586.9	3133.8	2795.2	2676.8
35°	3683.7	3416.4	2874.1	2520.3	2409.5
37.5°	3552.6	3212.7	2617.0	2239.0	2114.2
40°	3393.5	2997.6	2334.4	1960.2	1836.7
42.5°	3235.6	2763.4	2063.3	1708.2	1601.3
45°	3021.8	2511.4	1794.7	1452.3	1367.1
47.5°	2806.7	2241.5	1537.6	1244.9	1160.9
50°	2567.4	1976.8	1312.3	1045.0	975.0
52.5°	2334.4	1729.8	1107.4	883.4	823.5
55°	2060.8	1486.7	935.6	739.5	701.3
57.5°	1813.8	1261.4	789.2	626.3	590.6
60°	1552.9	1069.2	660.6	529.5	496.4
62.5°	1323.8	898.6	556.2	449.3	426.4
65°	1103.6	748.4	471.0	381.9	361.5
67.5°	901.2	625.0	397.1	325.9	309.3
70°	723.0	506.6	334.8	277.5	266.0
72.5°	569.0	407.3	278.8	239.3	229.1
75°	444.2	323.3	232.9	206.2	199.8
77.5°	320.8	252.0	194.7	176.9	173.1
80°	226.6	190.9	160.4	152.7	150.2
82.5°	150.2	138.7	132.4	132.4	131.1
85°	86.6	96.7	108.2	113.3	114.6
87.5°	44.6	64.9	86.6	96.7	98.0
90°	12.7	40.7	73.8	87.8	90.4
92.5°	19.1	40.7	72.6	87.8	90.4
95°	19.1	40.7	72.6	87.8	90.4
97.5°	17.8	39.5	72.6	87.8	90.4
100°	16.5	36.9	71.3	87.8	90.4
102.5°	14.0	35.6	68.7	86.6	90.4
105°	12.7	33.1	64.9	85.3	89.1
107.5°	11.5	28.0	61.1	81.5	86.6
110°	8.9	24.2	58.6	77.6	84.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.6	21.6	54.7	73.8	80.2
115°	6.4	19.1	50.9	70.0	76.4
117.5°	5.1	17.8	45.8	64.9	71.3
120°	3.8	16.5	42.0	61.1	66.2
122.5°	3.8	15.3	36.9	56.0	61.1
125°	3.8	12.7	34.4	50.9	56.0
127.5°	2.5	11.5	30.5	45.8	50.9
130°	2.5	11.5	28.0	42.0	45.8
132.5°	2.5	10.2	25.5	38.2	42.0
135°	2.5	10.2	22.9	34.4	38.2
137.5°	2.5	8.9	20.4	31.8	35.6
140°	2.5	8.9	19.1	28.0	31.8
142.5°	2.5	7.6	16.5	26.7	29.3
145°	2.5	7.6	15.3	22.9	26.7
147.5°	2.5	7.6	14.0	21.6	24.2
150°	2.5	6.4	12.7	17.8	21.6
152.5°	2.5	6.4	11.5	16.5	20.4
155°	2.5	6.4	10.2	14.0	17.8
157.5°	2.5	6.4	10.2	12.7	15.3
160°	3.8	5.1	8.9	11.5	14.0
162.5°	3.8	5.1	7.6	10.2	12.7
165°	3.8	5.1	7.6	8.9	11.5
167.5°	3.8	5.1	6.4	7.6	8.9
170°	3.8	3.8	6.4	6.4	6.4
172.5°	3.8	3.8	5.1	6.4	5.1
175°	3.8	3.8	5.1	5.1	5.1
177.5°	3.8	3.8	5.1	5.1	5.1
180°	3.8	3.8	3.8	3.8	3.8

(END OF REPORT)