

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P895775

Luminaire Tested: 2MB-SC3-ACL-UNV-CC83-HI-5000K

Issue Date: 11/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P895775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-ACL-UNV-CC83-HI-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 80CRI, 5000K CC
HI lumen setting
Light Source: -
Ballast/Driver: -

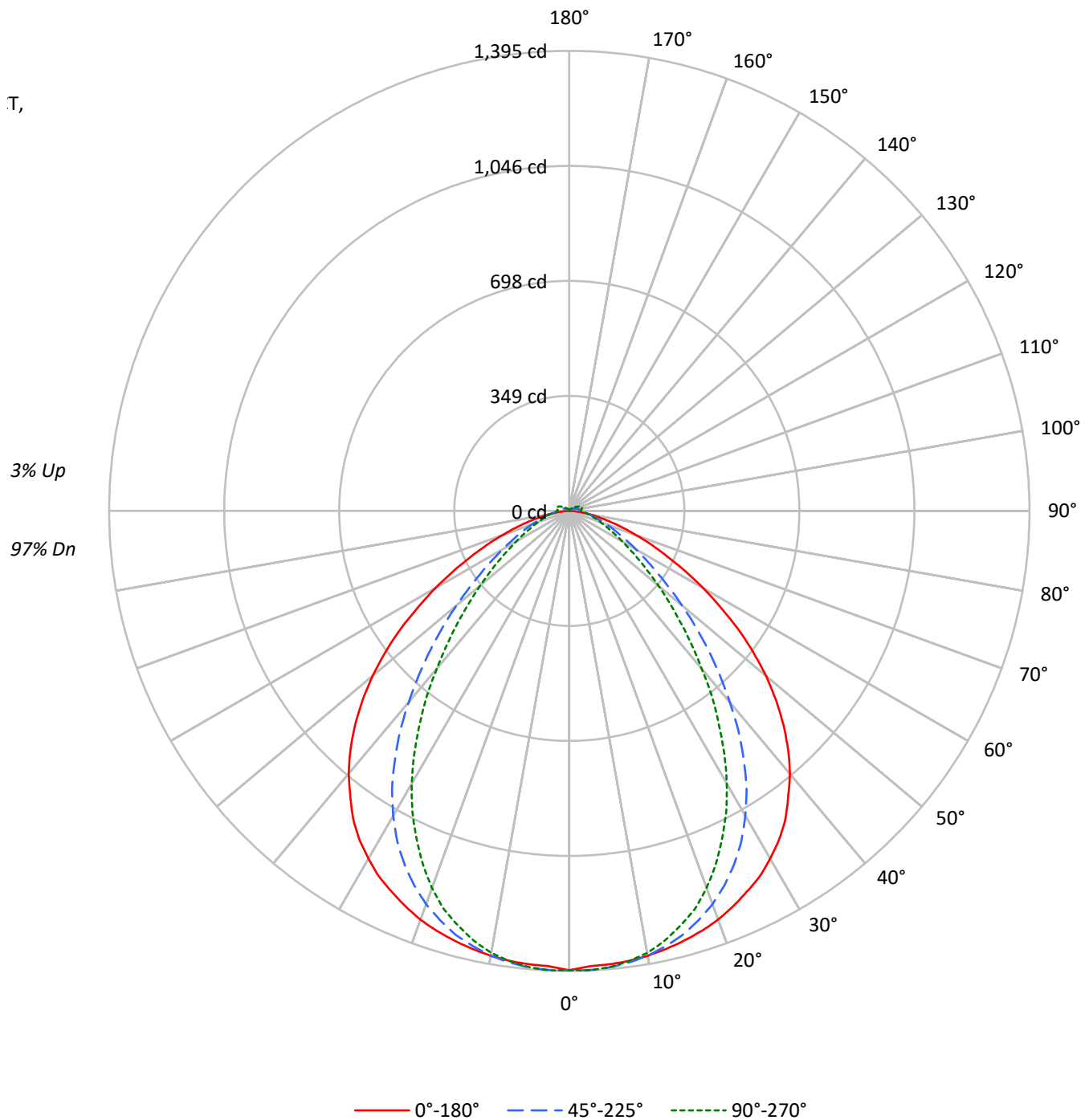
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2902.0 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.07 / 1.17
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 1.98' x H: 0.08')
CIE Type: Direct

Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.39961257980444
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	50	30	10	0
RCR																					
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	110	105	102	98	107	103	100	97	98	96	93	94	92	90	90	88	87	87	87	87	84
2	101	94	88	83	98	92	86	82	88	83	80	84	81	77	81	78	75	75	75	75	73
3	93	84	77	71	91	82	76	70	79	73	69	76	71	67	73	69	66	66	66	66	64
4	86	76	68	62	84	74	67	61	71	65	60	69	63	59	66	62	58	58	58	58	56
5	80	68	60	54	78	67	60	54	65	58	53	63	57	52	61	56	52	52	52	52	50
6	74	62	54	48	72	61	54	48	59	52	47	57	51	47	56	50	46	46	46	46	44
7	69	57	49	43	68	56	49	43	54	48	43	53	47	42	51	46	42	42	42	42	40
8	65	52	45	39	63	52	44	39	50	43	39	49	43	38	47	42	38	38	38	38	36
9	61	48	41	36	59	48	40	35	46	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	38	33	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28518	28518	28518
5°	28268	27954	27786
10°	28272	27272	26818
15°	28272	26424	25457
20°	28308	25337	23795
25°	28230	23904	21603
30°	28106	22036	19125
35°	27727	19592	16205
40°	26864	16711	13207
45°	25510	13754	10467
50°	23606	10934	8167
55°	21017	8497	6324
60°	17902	6635	4955
65°	14634	5272	3937
70°	11607	4270	3232
75°	8964	3477	2825
80°	6378	2930	2559
85°	3648	2553	2306

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25510 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	4.5
10°-20°	374.3	12.9
20°-30°	544.0	18.7
30°-40°	588.0	20.3
40°-50°	496.1	17.1
50°-60°	339.9	11.7
60°-70°	198.2	6.8
70°-80°	101.2	3.5
80°-90°	43.6	1.5
90°-100°	26.5	0.9
100°-110°	23.7	0.8
110°-120°	16.1	0.6
120°-130°	9.0	0.3
130°-140°	5.0	0.2
140°-150°	2.6	0.1
150°-160°	1.4	0.0
160°-170°	0.5	0.0
170°-180°	0.1	0.0
0°-30°	1050.2	36.2
0°-40°	1638.2	56.5
0°-60°	2474.2	85.3
0°-90°	2817.2	97.1
90°-120°	66.2	2.3
90°-150°	82.8	2.9
90°-180°	85.0	2.9
0°-180°	2902.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1393	1393	1393	1393	1393	
5°	1380	1389	1390	1393	1389	131
15°	1349	1348	1330	1314	1302	381
25°	1274	1249	1182	1124	1096	588
35°	1142	1068	922	823	791	711
45°	918	776	594	502	475	706
55°	624	473	324	271	256	556
65°	329	242	168	143	136	331
75°	131	107	85	79	78	142
85°	23	32	42	45	45	28
90°	1	14	31	34	34	2
95°	0	13	30	35	36	0
105°	0	8	26	37	39	0
115°	0	5	16	28	32	0
125°	0	3	10	16	19	1
135°	1	3	7	10	12	1
145°	1	2	5	6	7	1
155°	1	2	3	4	5	0
165°	1	1	2	3	3	0
175°	1	1	2	2	1	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1392.7	1392.7	1392.7	1392.7	1392.7
2.5°	1382.2	1390.8	1393.7	1397.5	1394.6
5°	1380.3	1388.9	1389.9	1392.7	1388.9
7.5°	1376.5	1383.2	1381.2	1381.2	1377.4
10°	1369.8	1373.6	1369.8	1365.0	1361.1
12.5°	1360.2	1363.1	1351.6	1344.9	1335.3
15°	1348.7	1347.7	1330.5	1314.2	1301.8
17.5°	1335.3	1328.6	1301.8	1276.9	1266.4
20°	1319.0	1306.6	1269.2	1232.9	1216.6
22.5°	1298.0	1280.7	1229.0	1182.1	1160.1
25°	1274.0	1249.1	1182.1	1123.8	1096.0
27.5°	1250.1	1212.8	1129.5	1056.7	1029.9
30°	1217.6	1170.7	1067.3	985.0	955.3
32.5°	1183.1	1123.8	1000.3	904.6	874.9
35°	1141.9	1068.2	921.8	823.2	790.6
37.5°	1090.3	1003.1	842.3	739.0	711.2
40°	1040.5	932.3	757.1	654.7	624.1
42.5°	982.1	855.7	674.8	575.3	547.5
45°	918.0	776.3	594.4	502.5	474.8
47.5°	850.0	700.7	517.8	432.7	410.6
50°	778.2	623.1	446.1	372.4	352.2
52.5°	701.6	545.6	380.0	318.7	300.6
55°	624.1	472.9	323.5	270.9	256.5
57.5°	542.7	403.0	275.7	230.7	217.3
60°	469.0	344.6	232.6	197.2	186.7
62.5°	396.3	291.0	198.1	167.5	158.9
65°	329.3	242.2	167.5	142.6	135.9
67.5°	270.9	202.9	143.6	122.5	117.7
70°	216.3	165.6	120.6	105.3	100.5
72.5°	170.4	134.0	101.5	90.9	88.1
75°	131.1	107.2	85.2	79.4	77.5
77.5°	95.7	82.3	71.8	68.9	68.0
80°	67.0	62.2	60.3	60.3	60.3
82.5°	42.1	45.9	50.7	52.6	52.6
85°	23.0	31.6	42.1	45.0	45.0
87.5°	9.6	22.0	35.4	38.3	37.3
90°	1.0	14.4	30.6	34.5	34.5
92.5°	0.0	14.4	30.6	34.5	34.5
95°	0.0	13.4	29.7	35.4	36.4
97.5°	0.0	12.4	29.7	36.4	37.3
100°	1.0	11.5	29.7	37.3	38.3
102.5°	0.0	9.6	27.8	37.3	39.2
105°	0.0	7.7	25.8	37.3	39.2
107.5°	0.0	5.7	23.9	35.4	38.3
110°	0.0	5.7	22.0	33.5	36.4



TEST NUMBER: P895775

CATALOG NUMBER: 2MB-SC3-ACL-UNV-CC83-HI-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	4.8	19.1	30.6	34.5
115°	0.0	4.8	16.3	27.8	31.6
117.5°	0.0	3.8	14.4	24.9	27.8
120°	0.0	3.8	12.4	22.0	24.9
122.5°	0.0	3.8	11.5	19.1	22.0
125°	0.0	2.9	9.6	16.3	19.1
127.5°	1.0	2.9	8.6	14.4	17.2
130°	1.0	2.9	7.7	12.4	15.3
132.5°	1.0	2.9	6.7	11.5	13.4
135°	1.0	2.9	6.7	9.6	11.5
137.5°	1.0	2.9	5.7	8.6	9.6
140°	1.0	2.9	4.8	7.7	8.6
142.5°	1.0	1.9	4.8	6.7	7.7
145°	1.0	1.9	4.8	5.7	6.7
147.5°	1.0	1.9	3.8	5.7	5.7
150°	1.0	1.9	3.8	4.8	5.7
152.5°	1.0	1.9	2.9	4.8	4.8
155°	1.0	1.9	2.9	3.8	4.8
157.5°	1.0	1.9	2.9	3.8	3.8
160°	1.0	1.9	1.9	2.9	3.8
162.5°	1.0	1.0	1.9	2.9	2.9
165°	1.0	1.0	1.9	2.9	2.9
167.5°	1.0	1.0	1.9	1.9	2.9
170°	1.0	1.0	1.9	1.9	1.9
172.5°	1.0	1.0	1.9	1.9	1.0
175°	1.0	1.0	1.9	1.9	1.0
177.5°	1.0	1.0	1.9	1.0	1.0
180°	1.0	1.0	1.0	1.0	1.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	20.17	21.57	20.59	21.95	22.34	16.50	17.90	16.91	18.28	18.66
	3H	21.24	22.49	21.67	22.88	23.32	17.68	18.93	18.11	19.32	19.76
	4H	21.53	22.70	21.98	23.11	23.57	18.20	19.38	18.65	19.79	20.24
	6H	21.67	22.75	22.13	23.18	23.64	18.74	19.82	19.20	20.25	20.71
	8H	21.68	22.71	22.16	23.16	23.63	19.02	20.05	19.49	20.50	20.97
	12H	21.67	22.65	22.15	23.09	23.59	19.31	20.30	19.79	20.74	21.24
4H	2H	20.21	21.38	20.66	21.79	22.24	16.95	18.13	17.40	18.54	18.99
	3H	21.43	22.40	21.89	22.86	23.33	18.32	19.29	18.78	19.75	20.22
	4H	21.81	22.68	22.29	23.15	23.66	18.95	19.82	19.43	20.29	20.80
	6H	22.03	22.79	22.53	23.28	23.81	19.62	20.38	20.13	20.88	21.41
	8H	22.06	22.77	22.57	23.27	23.80	19.96	20.67	20.48	21.17	21.71
	12H	22.06	22.70	22.60	23.23	23.77	20.34	20.98	20.87	21.51	22.05
8H	4H	21.83	22.54	22.34	23.04	23.57	19.17	19.88	19.68	20.37	20.91
	6H	22.10	22.69	22.65	23.23	23.78	19.95	20.54	20.50	21.08	21.63
	8H	22.17	22.70	22.73	23.26	23.81	20.39	20.92	20.95	21.48	22.03
	12H	22.21	22.67	22.76	23.22	23.85	20.89	21.36	21.45	21.90	22.53
12H	4H	21.81	22.45	22.34	22.98	23.52	19.17	19.81	19.71	20.34	20.88
	6H	22.09	22.62	22.66	23.18	23.74	19.98	20.51	20.55	21.07	21.63
	8H	22.20	22.67	22.76	23.21	23.84	20.48	20.95	21.04	21.49	22.12