

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: P892931

Luminaire Tested: 2MB-SC3-AOL-UNV-CC93-HI-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-AOL-UNV-CC93-HI-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 900
4000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

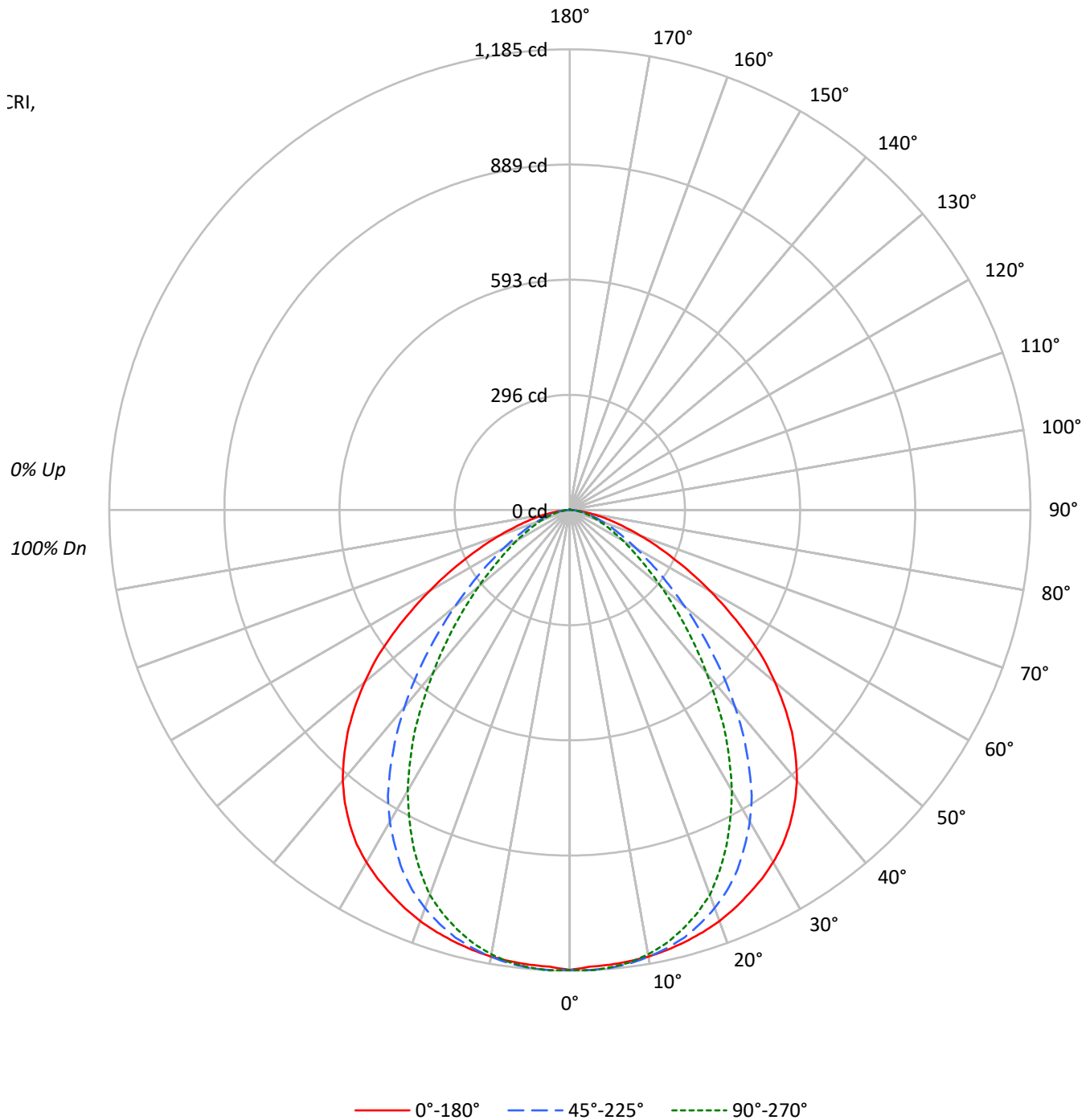
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2412.1 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.08 / 1.18
Luminous Opening: Rectangular (W 0.27' x L: 1.98' x H: 0')
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	89	89	89	87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	78	78	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	68	68	68	66
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	60	60	60	58
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	53	53	53	52
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	48	48	48	46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	43	43	43	41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	39	39	39	37
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	36	36	36	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	33	33	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24224	24224	24224
5°	24135	24300	24283
10°	24248	24265	24132
15°	24368	24131	23690
20°	24525	23741	22956
25°	24615	23061	21543
30°	24739	21902	19726
35°	24675	20075	17396
40°	24290	17682	14624
45°	23395	14939	12067
50°	21939	12284	9735
55°	19817	9967	7825
60°	17065	8027	6487
65°	14187	6628	5388
70°	11639	5556	4598
75°	9241	4747	3987
80°	6981	4056	3585
85°	4699	3759	3383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23395 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.3	4.7
10°-20°	320.2	13.3
20°-30°	469.0	19.4
30°-40°	511.7	21.2
40°-50°	433.9	18.0
50°-60°	294.9	12.2
60°-70°	166.6	6.9
70°-80°	76.0	3.2
80°-90°	19.9	0.8
90°-100°	2.6	0.1
100°-110°	1.5	0.1
110°-120°	0.8	0.0
120°-130°	0.7	0.0
130°-140°	0.6	0.0
140°-150°	0.5	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	901.4	37.4
0°-40°	1413.2	58.6
0°-60°	2142.0	88.8
0°-90°	2404.5	99.7
90°-120°	4.9	0.2
90°-150°	6.7	0.3
90°-180°	8.0	0.3
0°-180°	2412.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1183	1183	1183	1183	1183	
5°	1174	1181	1182	1185	1181	112
15°	1150	1149	1138	1126	1118	325
25°	1090	1071	1021	974	954	503
35°	987	924	803	719	696	616
45°	808	682	516	438	417	620
55°	555	410	279	232	219	495
65°	293	208	137	117	111	295
75°	117	86	60	53	50	127
85°	20	18	16	15	14	25
90°	0	2	3	4	4	1
95°	0	1	2	4	4	0
105°	0	1	2	2	2	0
115°	0	0	1	2	2	0
125°	0	0	1	2	2	0
135°	1	1	1	1	1	1
145°	1	1	1	1	1	1
155°	1	1	1	1	1	0
165°	1	1	1	2	2	0
175°	1	1	2	2	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1183.0	1183.0	1183.0	<i>1183.0</i>	1183.0
2.5°	<i>1175.8</i>	<i>1182.2</i>	<i>1184.6</i>	<i>1187.8</i>	<i>1185.4</i>
5°	1174.2	1180.6	1182.2	<i>1184.6</i>	1181.4
7.5°	1171.0	1176.6	1176.6	<i>1176.6</i>	1174.2
10°	1166.2	1170.2	1167.0	<i>1163.8</i>	1160.6
12.5°	1159.0	1160.6	1154.3	<i>1148.7</i>	1142.3
15°	1149.5	1148.7	1138.3	<i>1125.5</i>	1117.5
17.5°	1138.3	1135.1	1115.9	<i>1099.1</i>	1087.9
20°	1125.5	1117.5	1089.5	<i>1063.1</i>	1053.5
22.5°	1108.7	1097.5	1058.3	<i>1021.5</i>	1005.5
25°	1089.5	1071.1	1020.7	<i>974.3</i>	953.5
27.5°	1069.5	1042.3	974.3	<i>916.7</i>	894.3
30°	1046.3	1008.7	926.3	<i>859.9</i>	834.3
32.5°	1019.9	971.9	871.1	<i>791.1</i>	763.9
35°	987.1	923.9	803.1	<i>719.1</i>	695.9
37.5°	950.3	872.7	734.3	<i>647.1</i>	619.1
40°	908.7	814.3	661.5	<i>574.3</i>	547.1
42.5°	859.9	751.9	589.5	<i>504.7</i>	481.5
45°	807.9	682.3	515.9	<i>438.3</i>	416.7
47.5°	749.5	613.5	448.7	<i>375.2</i>	358.4
50°	688.7	544.7	385.6	<i>322.4</i>	305.6
52.5°	627.1	475.9	327.2	<i>273.6</i>	259.2
55°	555.1	410.3	279.2	<i>232.0</i>	219.2
57.5°	484.7	352.0	233.6	<i>194.4</i>	186.4
60°	416.7	296.0	196.0	<i>164.0</i>	158.4
62.5°	353.6	248.0	164.8	<i>138.4</i>	131.2
65°	292.8	208.0	136.8	<i>116.8</i>	111.2
67.5°	240.8	169.6	114.4	<i>96.8</i>	92.0
70°	194.4	136.8	92.8	<i>79.2</i>	76.8
72.5°	151.2	109.6	76.0	<i>65.6</i>	63.2
75°	116.8	85.6	60.0	<i>52.8</i>	50.4
77.5°	85.6	64.0	46.4	<i>40.8</i>	39.2
80°	59.2	45.6	34.4	<i>31.2</i>	30.4
82.5°	37.6	29.6	24.8	<i>22.4</i>	22.4
85°	20.0	18.4	16.0	<i>15.2</i>	14.4
87.5°	8.0	8.8	8.8	<i>8.8</i>	8.0
90°	0.0	2.4	3.2	<i>4.0</i>	4.0
92.5°	0.0	1.6	3.2	<i>4.0</i>	4.0
95°	0.0	0.8	2.4	<i>4.0</i>	4.0
97.5°	0.0	0.8	2.4	<i>3.2</i>	3.2
100°	0.0	0.8	1.6	<i>3.2</i>	3.2
102.5°	0.0	0.8	1.6	<i>2.4</i>	3.2
105°	0.0	0.8	1.6	<i>2.4</i>	2.4
107.5°	0.0	0.0	1.6	<i>2.4</i>	2.4
110°	0.0	0.0	0.8	<i>1.6</i>	2.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.8	1.6	2.4
115°	0.0	0.0	0.8	1.6	1.6
117.5°	0.0	0.0	0.8	1.6	1.6
120°	0.0	0.0	0.8	1.6	1.6
122.5°	0.0	0.0	0.8	1.6	1.6
125°	0.0	0.0	0.8	1.6	1.6
127.5°	0.0	0.8	0.8	0.8	1.6
130°	0.0	0.8	0.8	0.8	1.6
132.5°	0.8	0.8	0.8	0.8	0.8
135°	0.8	0.8	0.8	0.8	0.8
137.5°	0.8	0.8	0.8	0.8	0.8
140°	0.8	0.8	0.8	0.8	0.8
142.5°	0.8	0.8	0.8	0.8	0.8
145°	0.8	0.8	0.8	0.8	0.8
147.5°	0.8	0.8	0.8	0.8	0.8
150°	0.8	0.8	0.8	0.8	0.8
152.5°	0.8	0.8	0.8	0.8	0.8
155°	0.8	0.8	0.8	0.8	0.8
157.5°	0.8	0.8	0.8	0.8	0.8
160°	0.8	0.8	0.8	0.8	1.6
162.5°	0.8	0.8	0.8	1.6	1.6
165°	0.8	0.8	0.8	1.6	1.6
167.5°	0.8	0.8	0.8	1.6	1.6
170°	0.8	0.8	0.8	1.6	1.6
172.5°	0.8	0.8	0.8	1.6	1.6
175°	0.8	0.8	1.6	1.6	1.6
177.5°	0.8	0.8	1.6	1.6	1.6
180°	1.6	1.6	1.6	1.6	1.6



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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	21.41	22.85	21.78	23.17	23.50	16.77	18.22	17.14	18.54	18.86
	3H	22.66	23.95	23.05	24.29	24.66	17.81	19.10	18.20	19.44	19.81
	4H	23.06	24.27	23.47	24.62	25.01	18.18	19.39	18.59	19.74	20.13
	6H	23.30	24.41	23.72	24.78	25.19	18.44	19.55	18.86	19.93	20.33
	8H	23.36	24.41	23.79	24.81	25.22	18.53	19.59	18.97	19.98	20.40
	12H	23.37	24.38	23.81	24.77	25.21	18.60	19.61	19.04	20.00	20.43
4H	2H	21.42	22.63	21.83	22.98	23.37	17.35	18.55	17.75	18.91	19.29
	3H	22.83	23.82	23.25	24.23	24.64	18.57	19.57	18.99	19.97	20.38
	4H	23.32	24.21	23.76	24.64	25.09	19.03	19.92	19.47	20.35	20.79
	6H	23.67	24.44	24.13	24.89	25.36	19.39	20.16	19.85	20.61	21.08
	8H	23.75	24.47	24.22	24.92	25.40	19.51	20.23	19.99	20.68	21.16
	12H	23.80	24.44	24.29	24.93	25.41	19.61	20.25	20.10	20.74	21.22
8H	4H	23.32	24.04	23.79	24.49	24.96	19.32	20.04	19.79	20.49	20.97
	6H	23.71	24.30	24.21	24.80	25.29	19.77	20.36	20.27	20.86	21.35
	8H	23.83	24.36	24.35	24.88	25.38	19.95	20.48	20.47	21.00	21.49
	12H	23.92	24.39	24.44	24.89	25.47	20.11	20.58	20.63	21.08	21.66
12H	4H	23.29	23.93	23.78	24.42	24.90	19.35	19.99	19.84	20.48	20.96
	6H	23.68	24.21	24.20	24.73	25.23	19.82	20.35	20.34	20.87	21.37
	8H	23.84	24.31	24.35	24.81	25.38	20.05	20.52	20.57	21.02	21.59