

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: P895784

Luminaire Tested: 2MB-SC3-ACL-UNV-CC93-HI-5000K

Issue Date: 11/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P895784
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-CC93-HI-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 5000K CC
HI lumen setting
Light Source: -
Ballast/Driver: -

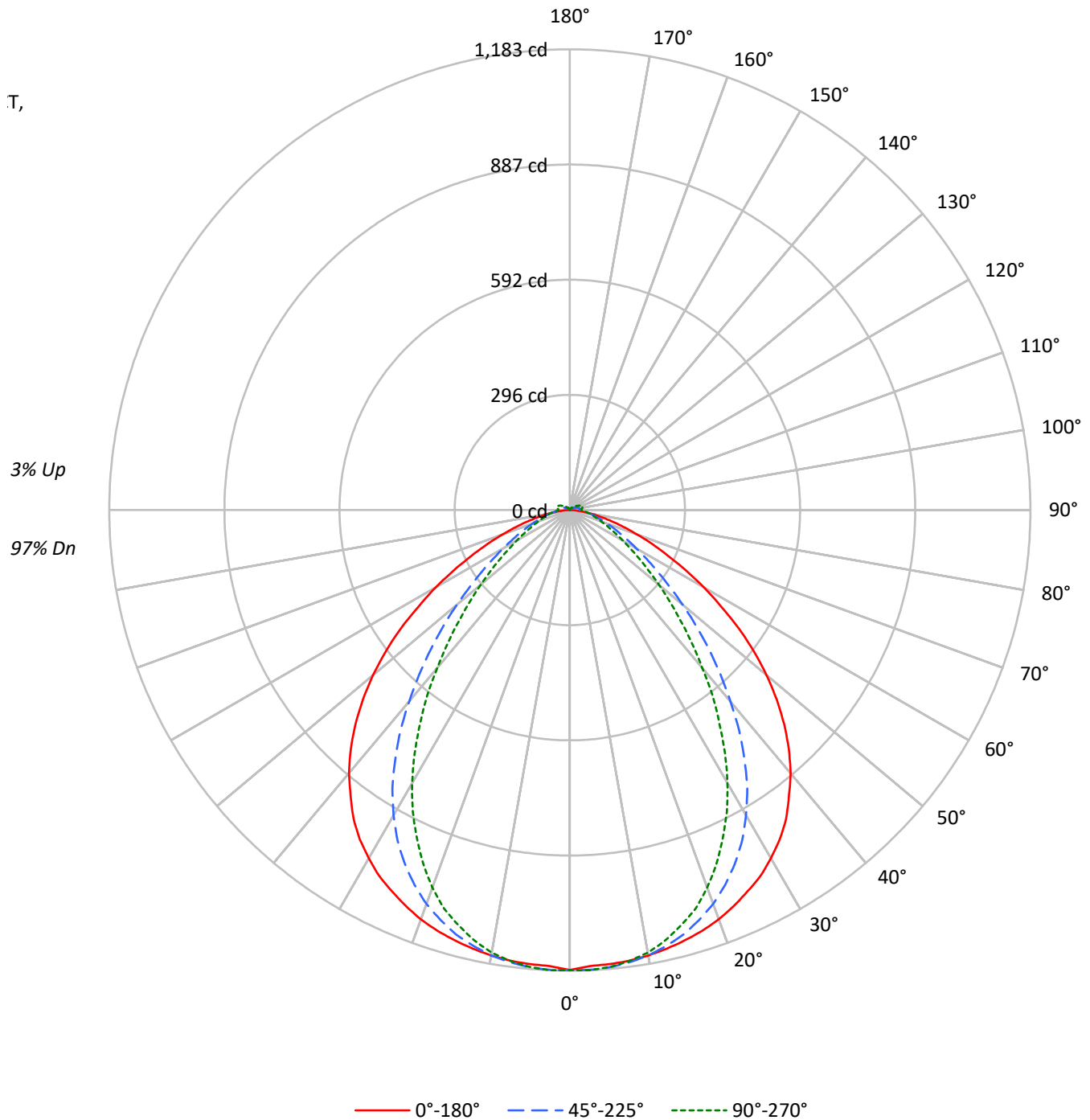
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2461.0 lumens
Efficiency: N/A
Efficacy: 117.2 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°	24185	24185	24185
5°	23971	23704	23563
10°	23974	23127	22743
15°	23975	22408	21589
20°	24007	21488	20178
25°	23940	20272	18319
30°	23833	18687	16218
35°	23514	16614	13743
40°	22782	14172	11201
45°	21633	11664	8875
50°	20017	9272	6927
55°	17824	7207	5363
60°	15184	5628	4201
65°	12408	4473	3340
70°	9847	3622	2740
75°	7603	2946	2399
80°	5407	2483	2169
85°	3093	2165	1958

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21633 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.9	4.5
10°-20°	317.4	12.9
20°-30°	461.3	18.7
30°-40°	498.7	20.3
40°-50°	420.7	17.1
50°-60°	288.3	11.7
60°-70°	168.1	6.8
70°-80°	85.8	3.5
80°-90°	37.0	1.5
90°-100°	22.5	0.9
100°-110°	20.1	0.8
110°-120°	13.6	0.6
120°-130°	7.6	0.3
130°-140°	4.2	0.2
140°-150°	2.2	0.1
150°-160°	1.1	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	890.6	36.2
0°-40°	1389.3	56.5
0°-60°	2098.2	85.3
0°-90°	2389.1	97.1
90°-120°	56.2	2.3
90°-150°	70.2	2.9
90°-180°	72.0	2.9
0°-180°	2461.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1170	1178	1179	1181	1178	111
15°	1144	1143	1128	1114	1104	323
25°	1080	1059	1002	953	929	498
35°	968	906	782	698	670	603
45°	778	658	504	426	403	598
55°	529	401	274	230	218	472
65°	279	205	142	121	115	280
75°	111	91	72	67	66	120
85°	20	27	36	38	38	24
90°	1	12	26	29	29	1
95°	0	11	25	30	31	0
105°	0	6	22	32	33	0
115°	0	4	14	24	27	0
125°	0	2	8	14	16	0
135°	1	2	6	8	10	1
145°	1	2	4	5	6	1
155°	1	2	2	3	4	0
165°	1	1	2	2	2	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°	1181.1	1181.1	1181.1	<i>1181.1</i>	1181.1
2.5°	<i>1172.2</i>	<i>1179.5</i>	<i>1181.9</i>	<i>1185.1</i>	<i>1182.7</i>
5°	1170.5	1177.8	1178.6	<i>1181.1</i>	1177.8
7.5°	1167.3	1173.0	1171.3	<i>1171.3</i>	1168.1
10°	1161.6	1164.8	1161.6	<i>1157.5</i>	1154.3
12.5°	1153.5	1155.9	1146.2	<i>1140.5</i>	1132.4
15°	1143.7	1142.9	1128.3	<i>1114.5</i>	1104.0
17.5°	1132.4	1126.7	1104.0	<i>1082.9</i>	1073.9
20°	1118.6	1108.0	1076.4	<i>1045.5</i>	1031.7
22.5°	1100.7	1086.1	1042.3	<i>1002.5</i>	983.8
25°	1080.4	1059.3	1002.5	<i>953.0</i>	929.4
27.5°	1060.1	1028.5	957.9	<i>896.2</i>	873.4
30°	1032.5	992.8	905.1	<i>835.3</i>	810.1
32.5°	1003.3	953.0	848.3	<i>767.1</i>	741.9
35°	968.4	905.9	781.7	<i>698.1</i>	670.5
37.5°	924.6	850.7	714.3	<i>626.7</i>	603.1
40°	882.4	790.6	642.1	<i>555.2</i>	529.3
42.5°	832.8	725.7	572.3	<i>487.9</i>	464.3
45°	778.5	658.3	504.1	<i>426.2</i>	402.6
47.5°	720.8	594.2	439.2	<i>366.9</i>	348.2
50°	659.9	528.4	378.3	<i>315.8</i>	298.7
52.5°	595.0	462.7	322.3	<i>270.3</i>	254.9
55°	529.3	401.0	274.4	<i>229.7</i>	217.5
57.5°	460.3	341.7	233.8	<i>195.6</i>	184.3
60°	397.8	292.2	197.3	<i>167.2</i>	158.3
62.5°	336.1	246.8	168.0	<i>142.1</i>	134.7
65°	279.2	205.4	142.1	<i>120.9</i>	115.3
67.5°	229.7	172.1	121.8	<i>103.9</i>	99.8
70°	183.5	140.4	102.3	<i>89.3</i>	85.2
72.5°	144.5	113.6	86.0	<i>77.1</i>	74.7
75°	111.2	90.9	72.2	<i>67.4</i>	65.8
77.5°	81.2	69.8	60.9	<i>58.4</i>	57.6
80°	56.8	52.8	51.1	<i>51.1</i>	51.1
82.5°	35.7	39.0	43.0	<i>44.6</i>	44.6
85°	19.5	26.8	35.7	<i>38.2</i>	38.2
87.5°	8.1	18.7	30.0	<i>32.5</i>	31.7
90°	0.8	12.2	26.0	<i>29.2</i>	29.2
92.5°	0.0	12.2	26.0	<i>29.2</i>	29.2
95°	0.0	11.4	25.2	<i>30.0</i>	30.8
97.5°	0.0	10.6	25.2	<i>30.8</i>	31.7
100°	0.8	9.7	25.2	<i>31.7</i>	32.5
102.5°	0.0	8.1	23.5	<i>31.7</i>	33.3
105°	0.0	6.5	21.9	<i>31.7</i>	33.3
107.5°	0.0	4.9	20.3	<i>30.0</i>	32.5
110°	0.0	4.9	18.7	<i>28.4</i>	30.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	4.1	16.2	26.0	29.2
115°	0.0	4.1	13.8	23.5	26.8
117.5°	0.0	3.2	12.2	21.1	23.5
120°	0.0	3.2	10.6	18.7	21.1
122.5°	0.0	3.2	9.7	16.2	18.7
125°	0.0	2.4	8.1	13.8	16.2
127.5°	0.8	2.4	7.3	12.2	14.6
130°	0.8	2.4	6.5	10.6	13.0
132.5°	0.8	2.4	5.7	9.7	11.4
135°	0.8	2.4	5.7	8.1	9.7
137.5°	0.8	2.4	4.9	7.3	8.1
140°	0.8	2.4	4.1	6.5	7.3
142.5°	0.8	1.6	4.1	5.7	6.5
145°	0.8	1.6	4.1	4.9	5.7
147.5°	0.8	1.6	3.2	4.9	4.9
150°	0.8	1.6	3.2	4.1	4.9
152.5°	0.8	1.6	2.4	4.1	4.1
155°	0.8	1.6	2.4	3.2	4.1
157.5°	0.8	1.6	2.4	3.2	3.2
160°	0.8	1.6	1.6	2.4	3.2
162.5°	0.8	0.8	1.6	2.4	2.4
165°	0.8	0.8	1.6	2.4	2.4
167.5°	0.8	0.8	1.6	1.6	2.4
170°	0.8	0.8	1.6	1.6	1.6
172.5°	0.8	0.8	1.6	1.6	0.8
175°	0.8	0.8	1.6	1.6	0.8
177.5°	0.8	0.8	1.6	0.8	0.8
180°	0.8	0.8	0.8	0.8	0.8



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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	19.60	21.00	20.01	21.38	21.77	15.92	17.32	16.34	17.70	18.09
	3H	20.67	21.92	21.10	22.31	22.75	17.10	18.36	17.53	18.75	19.18
	4H	20.96	22.13	21.41	22.54	22.99	17.63	18.80	18.08	19.21	19.67
	6H	21.09	22.18	21.56	22.60	23.07	18.17	19.25	18.63	19.68	20.14
	8H	21.11	22.13	21.58	22.58	23.06	18.44	19.47	18.92	19.92	20.40
	12H	21.09	22.08	21.57	22.52	23.02	18.74	19.72	19.22	20.16	20.66
4H	2H	19.63	20.80	20.08	21.21	21.67	16.38	17.55	16.83	17.96	18.42
	3H	20.86	21.83	21.32	22.29	22.76	17.74	18.71	18.21	19.17	19.65
	4H	21.23	22.11	21.72	22.58	23.09	18.38	19.25	18.86	19.72	20.23
	6H	21.45	22.21	21.96	22.71	23.24	19.05	19.81	19.55	20.30	20.83
	8H	21.49	22.20	22.00	22.70	23.23	19.39	20.10	19.90	20.60	21.14
	12H	21.49	22.12	22.02	22.66	23.20	19.77	20.40	20.30	20.93	21.48
8H	4H	21.25	21.96	21.77	22.46	23.00	18.59	19.30	19.11	19.80	20.34
	6H	21.53	22.12	22.07	22.66	23.21	19.38	19.96	19.92	20.51	21.06
	8H	21.60	22.12	22.16	22.68	23.24	19.81	20.34	20.38	20.90	21.46
	12H	21.63	22.10	22.19	22.65	23.28	20.32	20.79	20.88	21.33	21.96
12H	4H	21.24	21.87	21.77	22.40	22.95	18.60	19.23	19.13	19.77	20.31
	6H	21.52	22.05	22.08	22.61	23.17	19.41	19.94	19.97	20.50	21.06
	8H	21.63	22.10	22.19	22.64	23.27	19.90	20.37	20.46	20.92	21.55