

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: P892895

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892895
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-A-UNV-CC93-HI-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTIC, 90CRI, 4000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

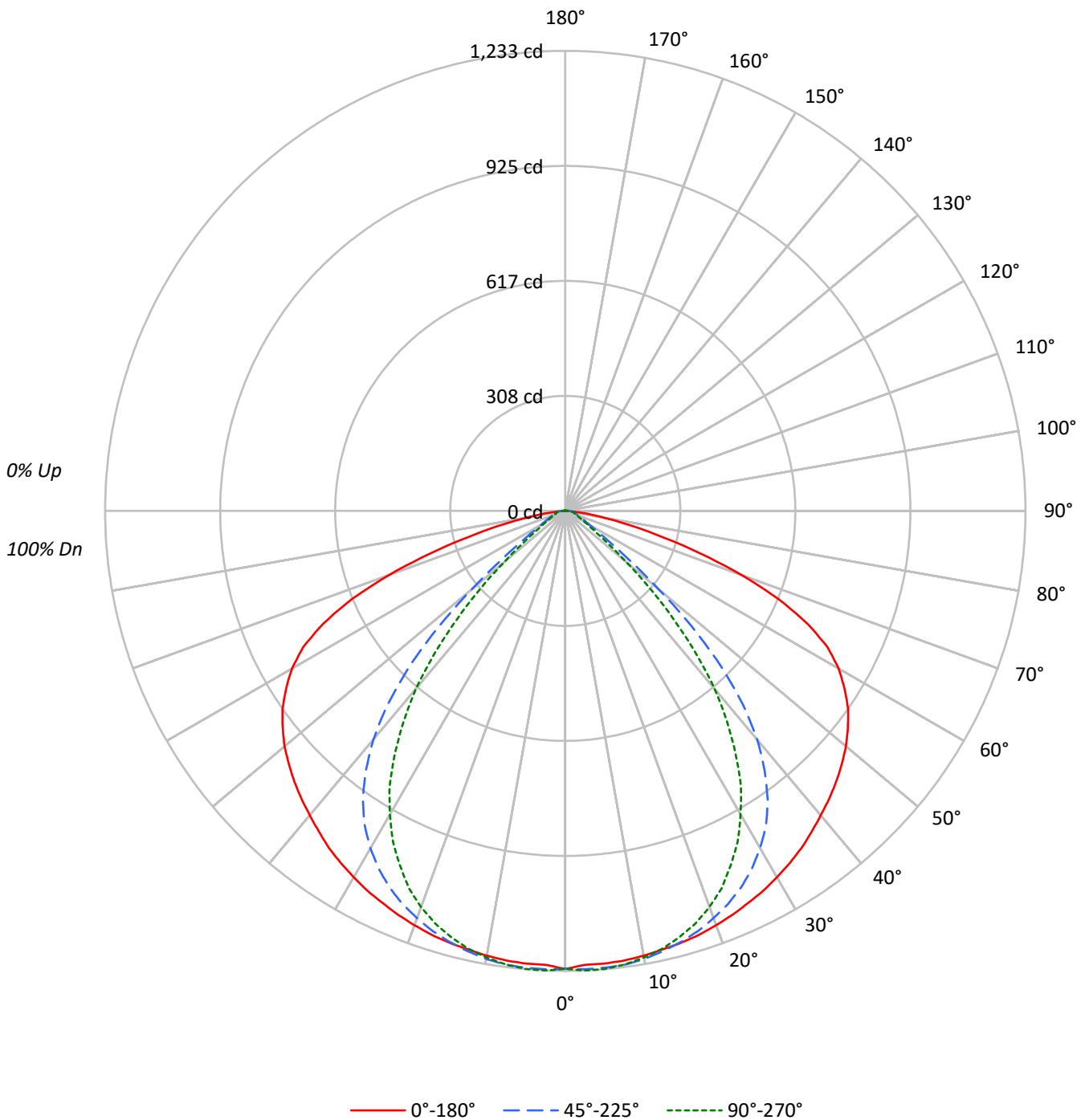
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2574.0 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.15 / 1.25
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	105	101	99	100	98	95	97	94	93	93	91	90	90	90	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	79	79	79	77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	76	73	69	69	69	69	67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	61	61	61	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	63	59	55	55	55	55	53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	49	49	49	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	44	44	44	42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	40	40	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	36	36	36	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	33	43	37	33	33	33	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25131	25131	25131
5°	25029	25260	25325
10°	25169	25352	25269
15°	25407	25356	25068
20°	25750	25314	24617
25°	26192	25162	23680
30°	26805	24687	22209
35°	27579	23640	19900
40°	28465	21387	16640
45°	29726	17146	11861
50°	31273	10423	6804
55°	33019	5027	3656
60°	34634	3080	2490
65°	34696	2481	2054
70°	30030	2251	1916
75°	21140	2279	2089
80°	12452	2736	2641
85°	5827	4135	3947

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 35126 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	4.5
10°-20°	337.5	13.1
20°-30°	510.7	19.8
30°-40°	589.9	22.9
40°-50°	504.4	19.6
50°-60°	275.5	10.7
60°-70°	139.2	5.4
70°-80°	67.6	2.6
80°-90°	23.2	0.9
90°-100°	5.6	0.2
100°-110°	0.9	0.0
110°-120°	0.3	0.0
120°-130°	0.3	0.0
130°-140°	0.5	0.0
140°-150°	0.5	0.0
150°-160°	0.4	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	965.1	37.5
0°-40°	1555.0	60.4
0°-60°	2334.9	90.7
0°-90°	2564.8	99.6
90°-120°	6.9	0.3
90°-150°	8.2	0.3
90°-180°	9.0	0.3
0°-180°	2574.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1227	1227	1227	1227	1227	
5°	1218	1227	1229	1234	1232	116
15°	1198	1206	1196	1190	1182	339
25°	1159	1153	1114	1070	1048	536
35°	1103	1066	946	835	796	691
45°	1026	896	592	440	410	793
55°	925	425	141	110	102	824
65°	716	79	51	46	42	693
75°	267	44	29	28	26	296
85°	25	25	18	18	17	38
90°	0	14	11	11	10	1
95°	0	2	5	7	6	0
105°	0	0	1	2	1	0
115°	0	0	0	1	1	0
125°	0	0	1	1	0	0
135°	1	1	1	1	1	1
145°	1	1	1	1	1	1
155°	1	1	1	2	1	0
165°	1	1	2	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°	1227.3	1227.3	1227.3	1227.3	1227.3
2.5°	1217.7	1226.5	1229.7	1235.3	1232.9
5°	1217.7	1227.3	1228.9	1233.7	1232.1
7.5°	1215.3	1224.1	1226.5	1228.9	1225.7
10°	1210.5	1219.3	1219.3	1219.3	1215.3
12.5°	1204.1	1213.7	1208.9	1205.7	1201.7
15°	1198.5	1205.7	1196.1	1190.5	1182.5
17.5°	1191.3	1196.9	1180.9	1169.7	1159.3
20°	1181.7	1184.1	1161.7	1140.9	1129.7
22.5°	1171.3	1168.9	1140.1	1109.7	1094.5
25°	1159.3	1152.9	1113.7	1070.5	1048.1
27.5°	1148.1	1134.5	1081.7	1023.3	1000.1
30°	1133.7	1115.3	1044.1	970.5	939.3
32.5°	1119.3	1092.1	1000.1	910.5	876.1
35°	1103.3	1065.7	945.7	835.3	796.1
37.5°	1084.1	1032.9	877.7	753.7	712.1
40°	1064.9	994.5	800.1	659.3	622.5
42.5°	1046.5	951.3	704.9	553.7	517.7
45°	1026.5	896.1	592.1	440.0	409.6
47.5°	1004.9	820.1	461.6	333.6	308.0
50°	981.7	721.7	327.2	233.6	213.6
52.5°	954.5	585.7	216.0	157.6	144.8
55°	924.9	424.8	140.8	109.6	102.4
57.5°	887.3	276.8	99.2	81.6	76.0
60°	845.7	165.6	75.2	64.8	60.8
62.5°	792.1	107.2	60.8	54.4	49.6
65°	716.1	79.2	51.2	45.6	42.4
67.5°	620.1	65.6	43.2	39.2	36.0
70°	501.6	57.6	37.6	34.4	32.0
72.5°	379.2	50.4	32.8	30.4	28.8
75°	267.2	44.0	28.8	28.0	26.4
77.5°	175.2	38.4	26.4	25.6	24.8
80°	105.6	32.8	23.2	23.2	22.4
82.5°	59.2	28.8	20.8	20.8	19.2
85°	24.8	24.8	17.6	17.6	16.8
87.5°	7.2	19.2	14.4	14.4	12.8
90°	0.0	14.4	11.2	11.2	10.4
92.5°	0.0	8.0	8.0	8.8	8.0
95°	0.0	1.6	4.8	7.2	6.4
97.5°	0.0	0.8	3.2	5.6	4.8
100°	0.0	0.0	1.6	4.0	3.2
102.5°	0.0	0.0	0.8	2.4	2.4
105°	0.0	0.0	0.8	1.6	0.8
107.5°	0.0	0.0	0.8	0.8	0.8
110°	0.0	0.0	0.8	0.8	0.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.8	0.8	0.8
115°	0.0	0.0	0.0	0.8	0.8
117.5°	0.0	0.0	0.0	0.8	0.0
120°	0.0	0.0	0.0	0.8	0.0
122.5°	0.0	0.0	0.0	0.8	0.0
125°	0.0	0.0	0.8	0.8	0.0
127.5°	0.0	0.0	0.8	0.8	0.8
130°	0.0	0.0	0.8	0.8	0.8
132.5°	0.8	0.0	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	1.6	0.8
157.5°	0.8	0.8	0.8	1.6	0.8
160°	0.8	0.8	0.8	1.6	0.8
162.5°	0.8	0.8	1.6	1.6	1.6
165°	0.8	0.8	1.6	1.6	1.6
167.5°	0.8	0.8	1.6	1.6	1.6
170°	0.8	0.8	1.6	1.6	1.6
172.5°	0.8	0.8	1.6	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	21.37	22.78	21.74	23.10	23.43	10.49	11.90	10.86	12.22	12.55
	3H	24.15	25.41	24.54	25.74	26.12	11.50	12.75	11.88	13.09	13.46
	4H	24.98	26.16	25.39	26.51	26.90	12.05	13.22	12.46	13.58	13.97
	6H	25.38	26.46	25.80	26.83	27.24	12.75	13.83	13.17	14.21	14.61
	8H	25.45	26.48	25.89	26.87	27.29	13.12	14.15	13.56	14.55	14.96
	12H	25.47	26.45	25.91	26.84	27.28	13.54	14.52	13.98	14.91	15.35
4H	2H	21.19	22.36	21.60	22.72	23.11	10.92	12.10	11.33	12.45	12.84
	3H	23.98	24.95	24.40	25.36	25.77	12.20	13.16	12.62	13.57	13.98
	4H	24.82	25.68	25.26	26.10	26.55	12.93	13.80	13.37	14.22	14.67
	6H	25.29	26.04	25.76	26.49	26.96	13.85	14.59	14.31	15.05	15.52
	8H	25.40	26.10	25.87	26.55	27.03	14.33	15.03	14.80	15.48	15.96
	12H	25.45	26.07	25.94	26.56	27.04	14.88	15.50	15.37	15.99	16.47
8H	4H	24.71	25.41	25.18	25.86	26.34	13.37	14.07	13.85	14.52	15.00
	6H	25.18	25.76	25.69	26.26	26.75	14.49	15.07	15.00	15.57	16.05
	8H	25.32	25.83	25.84	26.35	26.85	15.13	15.65	15.66	16.17	16.67
	12H	25.41	25.87	25.93	26.37	26.95	15.87	16.33	16.39	16.83	17.41
12H	4H	24.67	25.29	25.16	25.78	26.26	13.54	14.16	14.03	14.65	15.13
	6H	25.13	25.65	25.66	26.17	26.67	14.70	15.22	15.23	15.74	16.24
	8H	25.29	25.75	25.81	26.25	26.83	15.44	15.90	15.96	16.40	16.98