

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: P892896

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892896
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-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTIC, 90CRI, 5000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

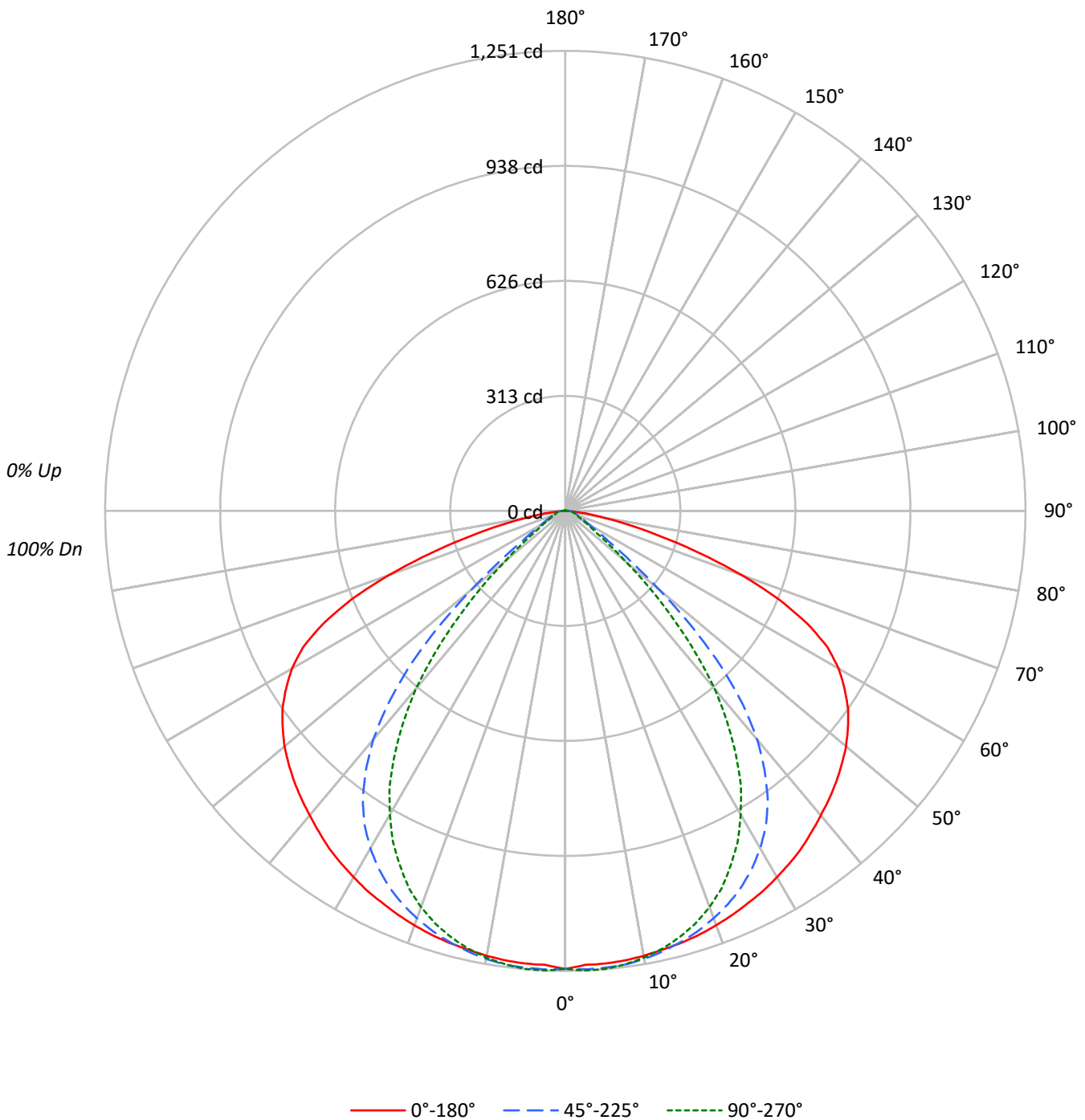
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2612.0 lumens
Efficiency: N/A
Efficacy: 124.4 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	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	84	81	79	77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	76	73	69	76	73	69	67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	70	65	61	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	63	59	55	63	59	55	53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	46	40	36	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	33	43	37	33	43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25501	25501	25501
5°	25399	25634	25700
10°	25541	25726	25643
15°	25782	25731	25439
20°	26131	25689	24981
25°	26579	25535	24030
30°	27200	25051	22538
35°	27987	23990	20193
40°	28885	21702	16885
45°	30166	17398	12038
50°	31735	10579	6906
55°	33504	5101	3709
60°	35146	3125	2527
65°	35205	2519	2083
70°	30479	2287	1946
75°	21456	2310	2120
80°	12641	2771	2677
85°	5921	4205	3994

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 35645 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.7	4.5
10°-20°	342.5	13.1
20°-30°	518.3	19.8
30°-40°	598.6	22.9
40°-50°	511.9	19.6
50°-60°	279.6	10.7
60°-70°	141.2	5.4
70°-80°	68.6	2.6
80°-90°	23.6	0.9
90°-100°	5.7	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°	979.4	37.5
0°-40°	1577.9	60.4
0°-60°	2369.4	90.7
0°-90°	2602.7	99.6
90°-120°	7.0	0.3
90°-150°	8.3	0.3
90°-180°	9.0	0.3
0°-180°	2612.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1245	1245	1245	1245	1245	
5°	1236	1245	1247	1252	1250	118
15°	1216	1224	1214	1208	1200	344
25°	1176	1170	1130	1086	1064	544
35°	1120	1081	960	848	808	701
45°	1042	909	601	446	416	805
55°	938	431	143	111	104	836
65°	727	80	52	46	43	703
75°	271	45	29	28	27	300
85°	25	25	18	18	17	39
90°	0	15	11	11	11	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°	1245.4	1245.4	1245.4	1245.4	1245.4
2.5°	1235.7	1244.6	1247.9	1253.6	1251.1
5°	1235.7	1245.4	1247.1	1251.9	1250.3
7.5°	1233.3	1242.2	1244.6	1247.1	1243.8
10°	1228.4	1237.3	1237.3	1237.3	1233.3
12.5°	1221.9	1231.6	1226.8	1223.5	1219.5
15°	1216.2	1223.5	1213.8	1208.1	1200.0
17.5°	1208.9	1214.6	1198.4	1187.0	1176.4
20°	1199.2	1201.6	1178.9	1157.8	1146.4
22.5°	1188.6	1186.2	1156.9	1126.1	1110.7
25°	1176.4	1169.9	1130.2	1086.3	1063.6
27.5°	1165.1	1151.3	1097.7	1038.4	1014.9
30°	1150.4	1131.8	1059.5	984.8	953.2
32.5°	1135.8	1108.2	1014.9	923.9	889.0
35°	1119.6	1081.4	959.7	847.6	807.8
37.5°	1100.1	1048.2	890.6	764.8	722.6
40°	1080.6	1009.2	811.9	669.0	631.7
42.5°	1062.0	965.3	715.3	561.8	525.3
45°	1041.7	909.3	600.8	446.5	415.7
47.5°	1019.7	832.2	468.5	338.6	312.6
50°	996.2	732.3	332.1	237.1	216.8
52.5°	968.6	594.3	219.2	159.9	147.0
55°	938.5	431.1	142.9	111.2	103.9
57.5°	900.4	280.9	100.7	82.8	77.1
60°	858.2	168.1	76.3	65.8	61.7
62.5°	803.8	108.8	61.7	55.2	50.3
65°	726.6	80.4	52.0	46.3	43.0
67.5°	629.2	66.6	43.8	39.8	36.5
70°	509.1	58.5	38.2	34.9	32.5
72.5°	384.8	51.1	33.3	30.9	29.2
75°	271.2	44.7	29.2	28.4	26.8
77.5°	177.8	39.0	26.8	26.0	25.2
80°	107.2	33.3	23.5	23.5	22.7
82.5°	60.1	29.2	21.1	21.1	19.5
85°	25.2	25.2	17.9	17.9	17.0
87.5°	7.3	19.5	14.6	14.6	13.0
90°	0.0	14.6	11.4	11.4	10.6
92.5°	0.0	8.1	8.1	8.9	8.1
95°	0.0	1.6	4.9	7.3	6.5
97.5°	0.0	0.8	3.2	5.7	4.9
100°	0.0	0.0	1.6	4.1	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	21.42	22.83	21.79	23.16	23.48	10.54	11.95	10.91	12.27	12.60
	3H	24.20	25.46	24.59	25.80	26.17	11.55	12.80	11.93	13.14	13.51
	4H	25.03	26.21	25.44	26.56	26.95	12.10	13.28	12.51	13.63	14.02
	6H	25.43	26.51	25.85	26.88	27.29	12.80	13.88	13.22	14.26	14.66
	8H	25.50	26.53	25.94	26.93	27.34	13.18	14.20	13.61	14.60	15.01
	12H	25.52	26.50	25.96	26.89	27.33	13.59	14.57	14.03	14.96	15.40
4H	2H	21.24	22.42	21.65	22.77	23.16	10.98	12.15	11.38	12.51	12.90
	3H	24.04	25.00	24.45	25.41	25.82	12.25	13.21	12.67	13.62	14.03
	4H	24.87	25.73	25.31	26.16	26.61	12.99	13.85	13.43	14.27	14.72
	6H	25.34	26.09	25.81	26.54	27.01	13.90	14.64	14.36	15.10	15.57
	8H	25.45	26.15	25.93	26.60	27.08	14.38	15.08	14.85	15.53	16.01
	12H	25.50	26.13	26.00	26.61	27.09	14.93	15.55	15.42	16.04	16.52
8H	4H	24.76	25.46	25.23	25.91	26.39	13.42	14.12	13.90	14.58	15.05
	6H	25.24	25.81	25.74	26.31	26.80	14.54	15.12	15.05	15.62	16.10
	8H	25.37	25.89	25.89	26.41	26.90	15.18	15.70	15.71	16.22	16.72
	12H	25.46	25.92	25.98	26.42	27.00	15.92	16.39	16.44	16.89	17.46
12H	4H	24.73	25.35	25.22	25.83	26.31	13.59	14.21	14.08	14.70	15.18
	6H	25.19	25.71	25.71	26.22	26.72	14.75	15.27	15.28	15.79	16.29
	8H	25.35	25.81	25.86	26.31	26.88	15.49	15.95	16.01	16.45	17.03