

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: P892894

Luminaire Tested: 2MB-SC3-A-UNV-CC93-HI-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892894
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-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTIC, 90CRI, 3500K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

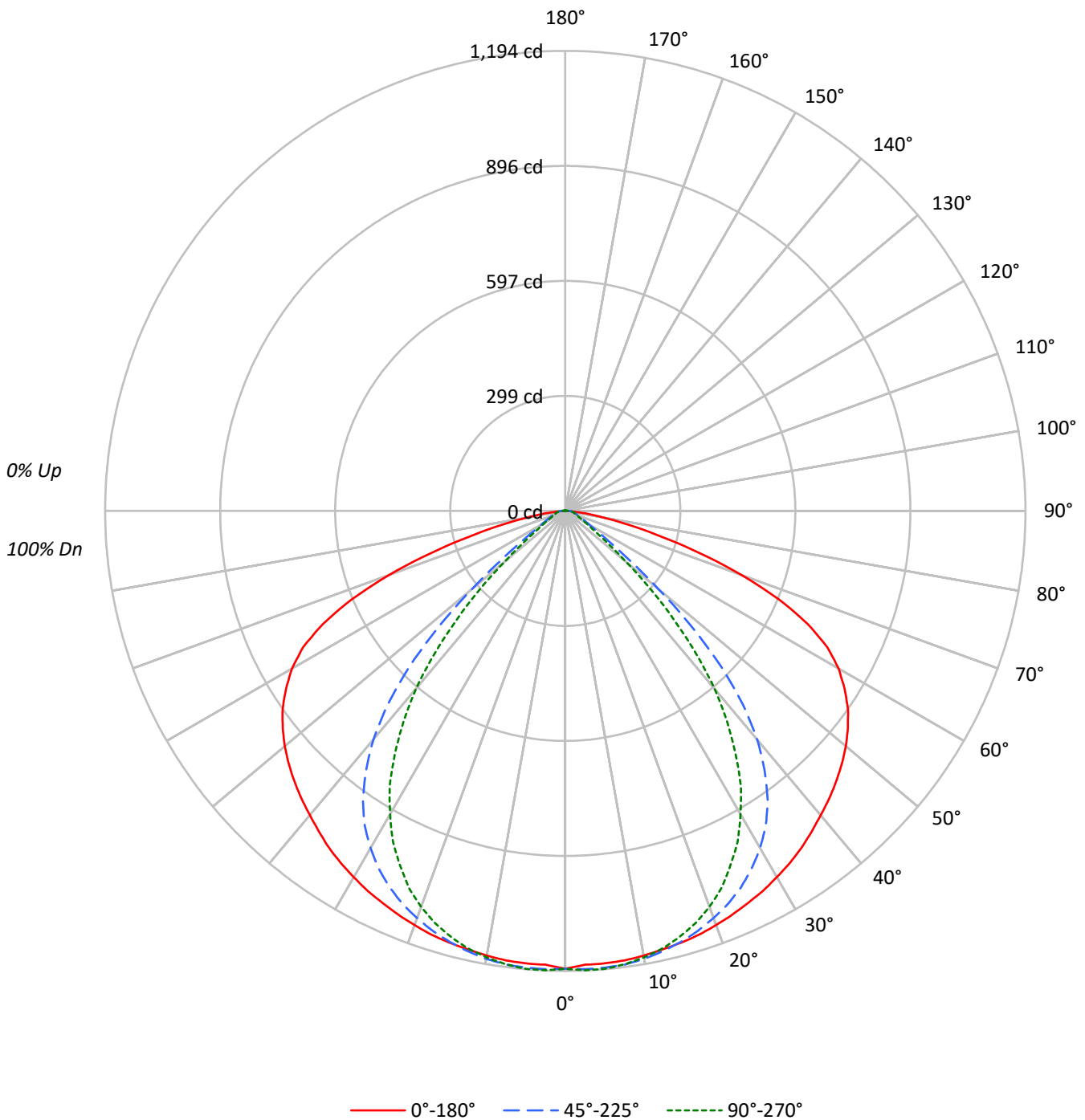
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2492.0 lumens
Efficiency: N/A
Efficacy: 118.7 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	72	69	76	72	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°	24330	24330	24330
5°	24232	24456	24520
10°	24369	24545	24464
15°	24597	24548	24268
20°	24931	24508	23832
25°	25359	24360	22925
30°	25952	23900	21502
35°	26702	22887	19265
40°	27559	20705	16108
45°	28779	16599	11485
50°	30276	10092	6588
55°	31965	4866	3538
60°	33528	2981	2412
65°	33591	2403	1991
70°	29078	2179	1856
75°	20467	2207	2025
80°	12051	2653	2559
85°	5639	3994	3830

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 34004 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	4.5
10°-20°	326.7	13.1
20°-30°	494.5	19.8
30°-40°	571.1	22.9
40°-50°	488.3	19.6
50°-60°	266.7	10.7
60°-70°	134.7	5.4
70°-80°	65.4	2.6
80°-90°	22.5	0.9
90°-100°	5.4	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°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	934.4	37.5
0°-40°	1505.5	60.4
0°-60°	2260.5	90.7
0°-90°	2483.1	99.6
90°-120°	6.6	0.3
90°-150°	8.0	0.3
90°-180°	9.0	0.4
0°-180°	2492.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1188	1188	1188	1188	1188	
5°	1179	1188	1190	1194	1193	112
15°	1160	1167	1158	1153	1145	328
25°	1122	1116	1078	1036	1015	519
35°	1068	1032	916	809	771	669
45°	994	868	573	426	397	768
55°	895	411	136	106	99	798
65°	693	77	50	44	41	671
75°	259	43	28	27	26	287
85°	24	24	17	17	16	37
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°	1188.2	1188.2	1188.2	1188.2	1188.2
2.5°	1178.9	1187.4	1190.5	1196.0	1193.6
5°	1178.9	1188.2	1189.8	1194.4	1192.9
7.5°	1176.6	1185.1	1187.4	1189.8	1186.7
10°	1172.0	1180.5	1180.5	1180.5	1176.6
12.5°	1165.8	1175.1	1170.4	1167.3	1163.4
15°	1160.3	1167.3	1158.0	1152.6	1144.8
17.5°	1153.4	1158.8	1143.3	1132.5	1122.4
20°	1144.1	1146.4	1124.7	1104.6	1093.7
22.5°	1134.0	1131.7	1103.8	1074.4	1059.6
25°	1122.4	1116.2	1078.2	1036.4	1014.7
27.5°	1111.5	1098.4	1047.2	990.7	968.2
30°	1097.6	1079.8	1010.8	939.6	909.4
32.5°	1083.7	1057.3	968.2	881.5	848.2
35°	1068.2	1031.8	915.6	808.7	770.7
37.5°	1049.6	1000.0	849.7	729.7	689.4
40°	1031.0	962.8	774.6	638.3	602.6
42.5°	1013.2	921.0	682.4	536.0	501.2
45°	993.8	867.5	573.2	426.0	396.6
47.5°	972.9	794.0	446.9	323.0	298.2
50°	950.4	698.7	316.8	226.2	206.8
52.5°	924.1	567.0	209.1	152.6	140.2
55°	895.4	411.3	136.3	106.1	99.1
57.5°	859.0	268.0	96.0	79.0	73.6
60°	818.7	160.3	72.8	62.7	58.9
62.5°	766.8	103.8	58.9	52.7	48.0
65°	693.3	76.7	49.6	44.2	41.1
67.5°	600.3	63.5	41.8	38.0	34.9
70°	485.7	55.8	36.4	33.3	31.0
72.5°	367.2	48.8	31.8	29.4	27.9
75°	258.7	42.6	27.9	27.1	25.6
77.5°	169.6	37.2	25.6	24.8	24.0
80°	102.2	31.8	22.5	22.5	21.7
82.5°	57.3	27.9	20.1	20.1	18.6
85°	24.0	24.0	17.0	17.0	16.3
87.5°	7.0	18.6	13.9	13.9	12.4
90°	0.0	13.9	10.8	10.8	10.1
92.5°	0.0	7.7	7.7	8.5	7.7
95°	0.0	1.5	4.6	7.0	6.2
97.5°	0.0	0.8	3.1	5.4	4.6
100°	0.0	0.0	1.5	3.9	3.1
102.5°	0.0	0.0	0.8	2.3	2.3
105°	0.0	0.0	0.8	1.5	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	1.5	0.8
157.5°	0.8	0.8	0.8	1.5	0.8
160°	0.8	0.8	0.8	1.5	0.8
162.5°	0.8	0.8	1.5	1.5	1.5
165°	0.8	0.8	1.5	1.5	1.5
167.5°	0.8	0.8	1.5	1.5	1.5
170°	0.8	0.8	1.5	1.5	1.5
172.5°	0.8	0.8	1.5	1.5	1.5
175°	0.8	0.8	1.5	1.5	1.5
177.5°	0.8	0.8	1.5	1.5	1.5
180°	1.5	1.5	1.5	1.5	1.5



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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	21.26	22.67	21.63	22.99	23.32	10.38	11.79	10.75	12.11	12.44
	3H	24.04	25.29	24.42	25.63	26.00	11.38	12.64	11.77	12.98	13.35
	4H	24.87	26.04	25.28	26.40	26.79	11.94	13.11	12.35	13.47	13.86
	6H	25.26	26.34	25.68	26.72	27.12	12.64	13.72	13.06	14.10	14.50
	8H	25.34	26.36	25.77	26.76	27.17	13.01	14.04	13.45	14.44	14.85
	12H	25.36	26.34	25.79	26.73	27.17	13.43	14.41	13.87	14.80	15.24
4H	2H	21.08	22.25	21.49	22.61	23.00	10.81	11.98	11.22	12.34	12.73
	3H	23.87	24.83	24.29	25.24	25.65	12.09	13.05	12.51	13.46	13.87
	4H	24.71	25.57	25.15	25.99	26.44	12.82	13.68	13.26	14.11	14.56
	6H	25.18	25.92	25.64	26.38	26.85	13.74	14.48	14.20	14.94	15.41
	8H	25.29	25.99	25.76	26.44	26.92	14.22	14.92	14.69	15.37	15.85
	12H	25.34	25.96	25.83	26.45	26.93	14.77	15.39	15.26	15.87	16.36
8H	4H	24.60	25.30	25.07	25.75	26.23	13.26	13.96	13.74	14.41	14.89
	6H	25.07	25.65	25.58	26.15	26.64	14.38	14.96	14.89	15.46	15.94
	8H	25.20	25.72	25.73	26.24	26.74	15.02	15.54	15.55	16.06	16.56
	12H	25.30	25.76	25.82	26.26	26.84	15.76	16.22	16.28	16.72	17.30
12H	4H	24.56	25.18	25.05	25.67	26.15	13.43	14.05	13.92	14.54	15.02
	6H	25.02	25.54	25.55	26.06	26.56	14.59	15.11	15.12	15.63	16.13
	8H	25.18	25.64	25.70	26.14	26.72	15.33	15.79	15.85	16.29	16.87