

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: P893057

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-LVRA-UNV-CC93-HI-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 4000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

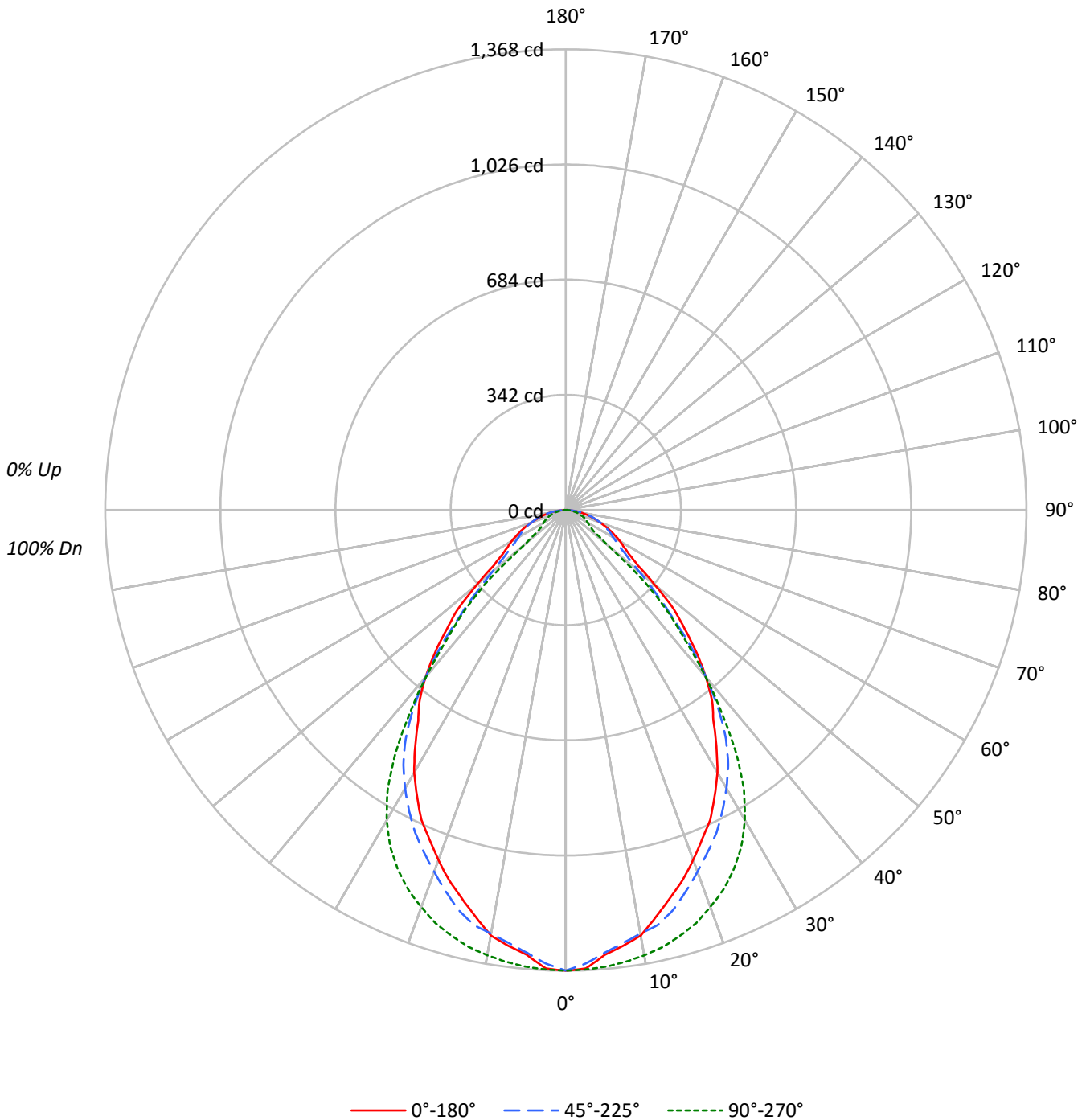
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2220.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
Luminous Opening: Rectangular (W 0.38' 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	100	100	100	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78	78	78	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69	69	69	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62	62	62	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55	55	55	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50	50	50	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45	45	45	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41	41	41	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	38	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35	35	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19568	19568	19568
5°	19040	18954	19547
10°	18636	18554	19501
15°	17674	18216	19391
20°	16836	17405	19096
25°	16015	16700	18608
30°	14878	15764	17569
35°	13342	14486	15410
40°	12088	12114	12049
45°	10107	8950	8730
50°	7634	6301	3570
55°	5741	5038	2252
60°	5336	4641	2169
65°	4966	4631	2173
70°	4542	4542	2137
75°	4306	4422	2067
80°	3979	4185	2117
85°	3480	3644	2314

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10342 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	5.7
10°-20°	348.2	15.7
20°-30°	493.7	22.2
30°-40°	508.6	22.9
40°-50°	355.2	16.0
50°-60°	170.5	7.7
60°-70°	119.6	5.4
70°-80°	74.8	3.4
80°-90°	23.1	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	968.2	43.6
0°-40°	1476.8	66.5
0°-60°	2002.5	90.2
0°-90°	2220.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2220.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1368	1368	1368	1368	1368	
5°	1326	1324	1320	1354	1361	125
15°	1193	1202	1230	1265	1309	336
25°	1015	1025	1058	1130	1179	464
35°	764	785	830	847	882	481
45°	500	511	442	420	432	385
55°	230	219	202	129	90	216
65°	147	137	137	104	64	145
75°	78	77	80	69	37	82
85°	21	21	22	22	14	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1367.9	1367.9	1367.9	1367.9	1367.9
2.5°	1362.6	1358.4	1348.1	1366.8	1365.4
5°	1325.9	1324.2	1319.9	1354.5	1361.2
7.5°	1305.1	1301.6	1296.7	1334.7	1353.4
10°	1282.9	1287.1	1277.3	1312.2	1342.5
12.5°	1237.1	1248.4	1261.8	1288.9	1329.1
15°	1193.4	1202.2	1230.0	1265.3	1309.3
17.5°	1152.5	1162.7	1186.7	1239.5	1286.4
20°	1105.9	1120.0	1143.3	1211.0	1254.4
22.5°	1058.0	1071.0	1100.3	1172.9	1221.2
25°	1014.6	1024.8	1058.0	1129.6	1178.9
27.5°	957.2	976.2	1007.6	1076.7	1128.5
30°	900.7	917.0	954.3	1012.5	1063.6
32.5°	832.7	856.3	897.6	942.0	984.7
35°	764.0	784.8	829.5	846.8	882.4
37.5°	713.9	719.5	744.9	742.8	762.9
40°	647.3	658.6	648.7	622.2	645.2
42.5°	575.4	588.7	548.9	518.2	526.3
45°	499.6	511.2	442.4	419.9	431.5
47.5°	434.0	432.9	356.8	341.6	325.4
50°	343.0	354.3	283.1	254.9	160.4
52.5°	267.9	272.2	233.4	162.9	105.4
55°	230.2	218.9	202.0	129.4	90.3
57.5°	204.5	190.4	179.1	120.2	82.5
60°	186.5	170.6	162.2	114.2	75.8
62.5°	166.0	153.7	150.5	108.9	69.8
65°	146.7	137.1	136.8	104.0	64.2
67.5°	127.3	122.0	123.4	98.0	57.8
70°	108.6	107.5	108.6	90.3	51.1
72.5°	92.7	91.7	94.5	80.4	43.7
75°	77.9	76.9	80.0	69.1	37.4
77.5°	62.0	62.8	64.9	57.5	31.4
80°	48.3	48.3	50.8	45.1	25.7
82.5°	34.5	34.9	36.3	33.1	20.1
85°	21.2	21.2	22.2	21.9	14.1
87.5°	7.1	8.1	9.5	10.2	7.1
90°	0.0	0.0	0.0	0.0	0.0



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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	15.98	17.33	16.35	17.65	17.96	12.31	13.66	12.68	13.98	14.29
	3H	17.72	18.93	18.10	19.25	19.62	14.29	15.49	14.67	15.82	16.19
	4H	18.39	19.52	18.79	19.87	20.25	14.99	16.12	15.39	16.47	16.85
	6H	18.90	19.93	19.31	20.30	20.70	15.51	16.55	15.93	16.92	17.32
	8H	19.07	20.05	19.50	20.44	20.85	15.70	16.69	16.13	17.08	17.48
	12H	19.18	20.12	19.61	20.50	20.93	15.84	16.78	16.27	17.16	17.59
4H	2H	16.51	17.64	16.91	17.99	18.37	13.93	15.06	14.34	15.41	15.79
	3H	18.49	19.42	18.90	19.82	20.22	16.11	17.04	16.52	17.45	17.85
	4H	19.29	20.13	19.72	20.54	20.99	16.99	17.83	17.43	18.25	18.69
	6H	19.93	20.66	20.39	21.10	21.57	17.63	18.36	18.10	18.80	19.27
	8H	20.15	20.83	20.62	21.28	21.75	17.84	18.52	18.31	18.97	19.44
	12H	20.31	20.91	20.79	21.39	21.86	18.00	18.60	18.49	19.08	19.56
8H	4H	19.57	20.25	20.04	20.70	21.17	17.64	18.32	18.11	18.76	19.23
	6H	20.36	20.91	20.86	21.41	21.89	18.50	19.06	19.00	19.55	20.03
	8H	20.66	21.16	21.18	21.67	22.16	18.83	19.33	19.35	19.84	20.33
	12H	20.89	21.33	21.41	21.83	22.40	19.09	19.53	19.61	20.03	20.60
12H	4H	19.59	20.19	20.08	20.67	21.15	17.71	18.31	18.20	18.80	19.27
	6H	20.41	20.91	20.93	21.42	21.91	18.64	19.14	19.16	19.65	20.14
	8H	20.77	21.21	21.29	21.71	22.28	19.05	19.49	19.57	19.99	20.56