

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: P893058

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893058
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-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 5000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

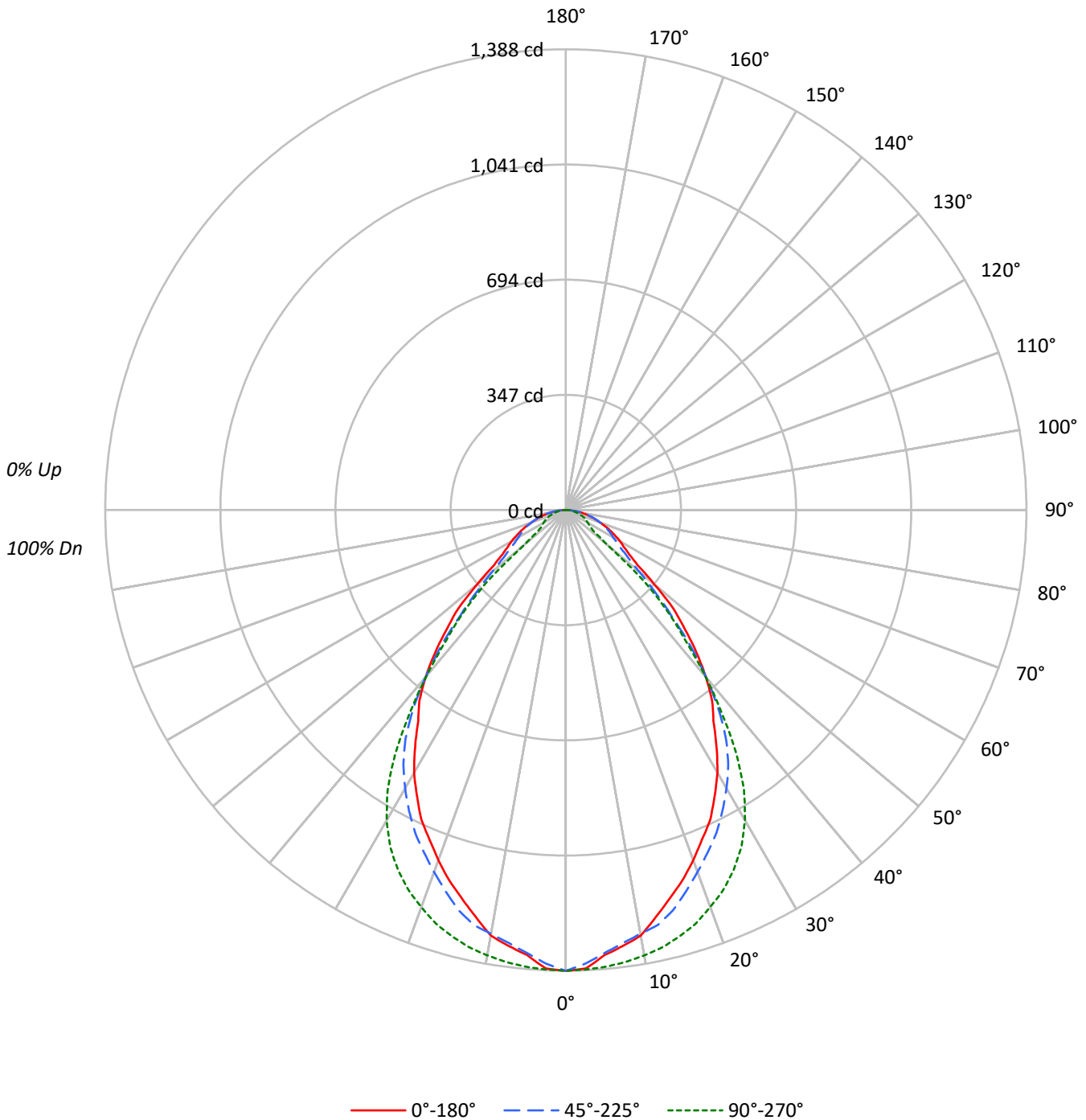
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2253.0 lumens
Efficiency: N/A
Efficacy: 107.3 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	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	80	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	71	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	63	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	52	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	47	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	37	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19859	19859	19859
5°	19323	19235	19837
10°	18913	18830	19790
15°	17937	18487	19680
20°	17087	17664	19380
25°	16253	16948	18884
30°	15100	15998	17830
35°	13540	14703	15639
40°	12267	12293	12226
45°	10257	9084	8859
50°	7747	6394	3623
55°	5826	5113	2285
60°	5416	4709	2200
65°	5037	4698	2204
70°	4609	4609	2171
75°	4372	4488	2095
80°	4037	4243	2150
85°	3529	3693	2347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 10496 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	5.7
10°-20°	353.3	15.7
20°-30°	501.0	22.2
30°-40°	516.2	22.9
40°-50°	360.5	16.0
50°-60°	173.0	7.7
60°-70°	121.4	5.4
70°-80°	75.9	3.4
80°-90°	23.5	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°	982.6	43.6
0°-40°	1498.8	66.5
0°-60°	2032.3	90.2
0°-90°	2253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2253.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1388	1388	1388	1388	1388	
5°	1346	1344	1340	1375	1381	127
15°	1211	1220	1248	1284	1329	341
25°	1030	1040	1074	1146	1196	471
35°	775	796	842	859	896	489
45°	507	519	449	426	438	391
55°	234	222	205	131	92	219
65°	149	139	139	106	65	147
75°	79	78	81	70	38	83
85°	22	22	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°	1388.2	1388.2	1388.2	1388.2	1388.2
2.5°	1382.8	1378.5	1368.2	1387.1	1385.7
5°	1345.6	1343.8	1339.5	1374.6	1381.4
7.5°	1324.5	1320.9	1315.9	1354.6	1373.5
10°	1302.0	1306.3	1296.3	1331.7	1362.4
12.5°	1255.5	1266.9	1280.5	1308.1	1348.8
15°	1211.1	1220.0	1248.3	1284.1	1328.8
17.5°	1169.6	1180.0	1204.3	1258.0	1305.6
20°	1122.4	1136.7	1160.3	1229.0	1273.0
22.5°	1073.7	1086.9	1116.6	1190.3	1239.4
25°	1029.7	1040.1	1073.7	1146.3	1196.4
27.5°	971.4	990.7	1022.5	1092.7	1145.3
30°	914.1	930.6	968.5	1027.6	1079.4
32.5°	845.1	869.1	910.9	956.0	999.3
35°	775.3	796.4	841.9	859.4	895.5
37.5°	724.5	730.2	756.0	753.9	774.2
40°	656.9	668.3	658.3	631.5	654.7
42.5°	583.9	597.5	557.1	525.9	534.2
45°	507.0	518.8	449.0	426.1	437.9
47.5°	440.4	439.4	362.1	346.7	330.2
50°	348.1	359.6	287.3	258.7	162.8
52.5°	271.9	276.2	236.9	165.3	107.0
55°	233.6	222.2	205.0	131.3	91.6
57.5°	207.5	193.2	181.8	122.0	83.7
60°	189.3	173.2	164.6	115.9	76.9
62.5°	168.5	156.0	152.8	110.6	70.8
65°	148.8	139.2	138.8	105.5	65.1
67.5°	129.2	123.8	125.2	99.5	58.7
70°	110.2	109.1	110.2	91.6	51.9
72.5°	94.1	93.0	95.9	81.6	44.4
75°	79.1	78.0	81.2	70.1	37.9
77.5°	63.0	63.7	65.8	58.3	31.8
80°	49.0	49.0	51.5	45.8	26.1
82.5°	35.1	35.4	36.9	33.6	20.4
85°	21.5	21.5	22.5	22.2	14.3
87.5°	7.2	8.2	9.7	10.4	7.2
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	16.03	17.38	16.40	17.70	18.01	12.36	13.72	12.73	14.03	14.34
	3H	17.77	18.98	18.15	19.31	19.67	14.34	15.55	14.72	15.88	16.24
	4H	18.44	19.57	18.84	19.92	20.30	15.04	16.17	15.45	16.52	16.90
	6H	18.95	19.99	19.36	20.36	20.75	15.57	16.60	15.98	16.97	17.37
	8H	19.12	20.10	19.55	20.50	20.90	15.75	16.74	16.18	17.13	17.53
	12H	19.23	20.17	19.66	20.55	20.98	15.89	16.83	16.32	17.22	17.65
4H	2H	16.56	17.69	16.96	18.04	18.42	13.98	15.11	14.39	15.46	15.84
	3H	18.54	19.47	18.95	19.87	20.27	16.16	17.09	16.58	17.50	17.90
	4H	19.34	20.18	19.77	20.59	21.04	17.04	17.88	17.48	18.30	18.74
	6H	19.98	20.71	20.45	21.15	21.62	17.68	18.41	18.15	18.85	19.32
	8H	20.20	20.88	20.67	21.33	21.80	17.89	18.57	18.36	19.02	19.49
	12H	20.36	20.96	20.84	21.44	21.91	18.05	18.65	18.54	19.13	19.61
8H	4H	19.62	20.30	20.09	20.75	21.22	17.69	18.37	18.16	18.81	19.28
	6H	20.41	20.96	20.91	21.46	21.94	18.55	19.11	19.05	19.60	20.08
	8H	20.71	21.21	21.23	21.72	22.21	18.88	19.38	19.40	19.89	20.38
	12H	20.94	21.39	21.46	21.88	22.45	19.14	19.58	19.66	20.08	20.65
12H	4H	19.64	20.24	20.13	20.72	21.20	17.76	18.36	18.25	18.85	19.32
	6H	20.46	20.96	20.98	21.47	21.96	18.69	19.19	19.21	19.70	20.19
	8H	20.82	21.26	21.34	21.76	22.33	19.10	19.54	19.62	20.04	20.61