

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: P893029

Luminaire Tested: 2MB-SC3-LVR-UNV-CC83-HI-3500K

Issue Date: 11/11/2024

**Test Information**

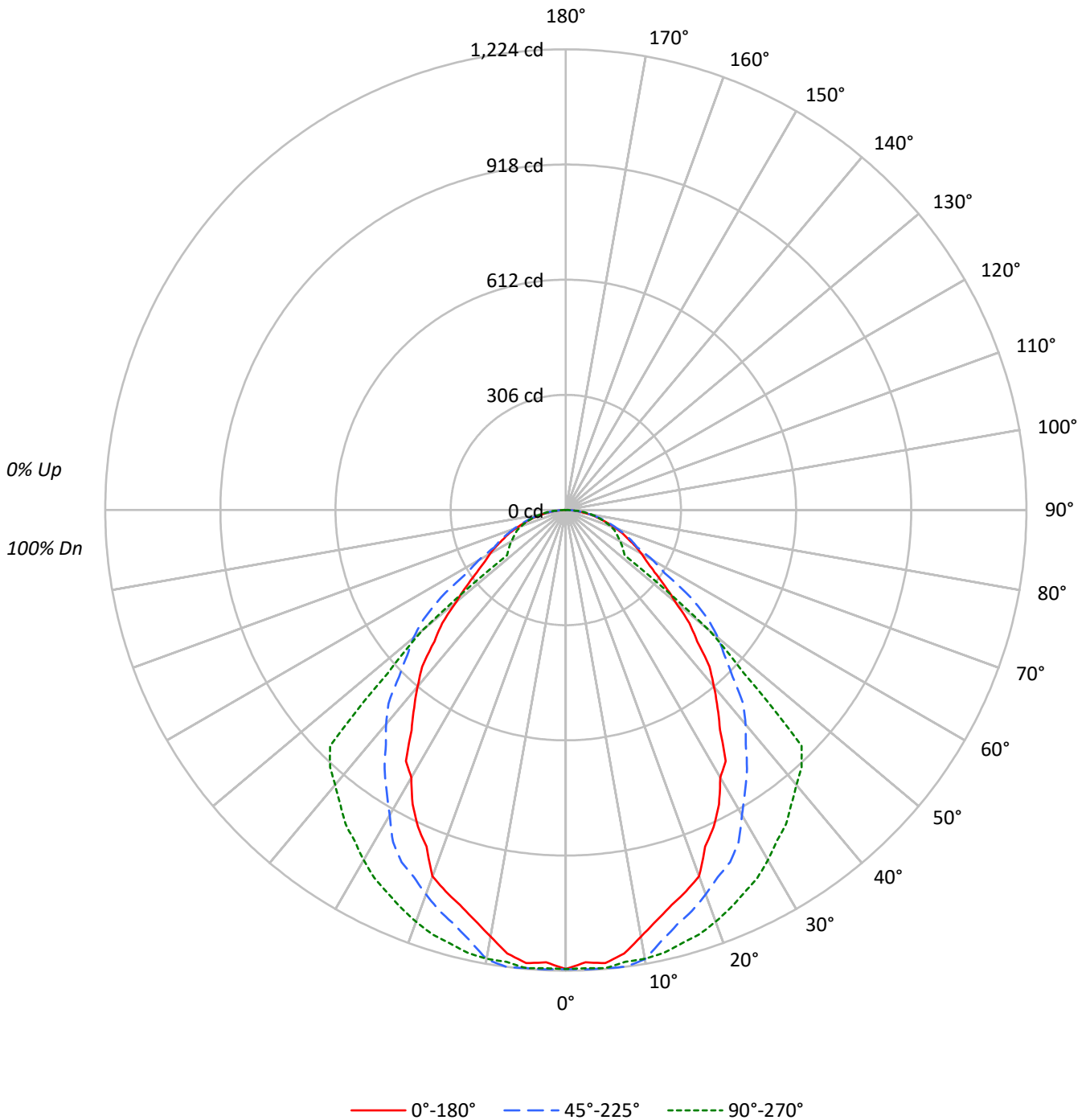
Test Method: LM-79-2019  
Report Number: P893029  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-LVR-UNV-CC83-HI-3500K  
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 3500K CCT, HI lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2544.0 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.3 / 1.26  
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 (A<sub>in</sub>): 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	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	89	89	89	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	42	42	42	40
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	38	38	38	37
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	17444	17444	17444
5°	17351	17542	17542
10°	16715	17600	17584
15°	16091	16894	17649
20°	15764	16540	17720
25°	14667	16293	17708
30°	13557	15458	17746
35°	12474	14661	17813
40°	11438	13877	17808
45°	9992	12683	17925
50°	8455	11758	11092
55°	7183	10109	4641
60°	6655	7668	4784
65°	6184	6523	5023
70°	5835	6161	5283
75°	5389	5815	5450
80°	4926	5380	5750
85°	4366	4908	6188

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 17925 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.6	4.5
10°-20°	323.7	12.7
20°-30°	470.5	18.5
30°-40°	532.8	20.9
40°-50°	497.7	19.6
50°-60°	282.8	11.1
60°-70°	177.7	7.0
70°-80°	109.0	4.3
80°-90°	34.2	1.3
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°	909.8	35.8
0°-40°	1442.6	56.7
0°-60°	2223.1	87.4
0°-90°	2544.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2544.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1219	1219	1219	1219	1219	
5°	1208	1220	1222	1217	1222	113
15°	1086	1105	1141	1203	1192	307
25°	929	947	1032	1079	1122	426
35°	714	762	840	949	1020	450
45°	494	545	627	796	886	385
55°	288	314	405	213	186	264
65°	183	189	193	167	148	183
75°	98	101	105	107	99	104
85°	27	28	30	33	38	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1219.4	1219.4	1219.4	1219.4	1219.4
2.5°	1202.8	1216.0	1221.6	1220.5	1218.3
5°	1208.3	1220.5	1221.6	1217.2	1221.6
7.5°	1188.4	1217.2	1223.8	1212.7	1210.5
10°	1150.7	1167.3	1211.6	1216.0	1210.5
12.5°	1116.4	1136.3	1172.9	1216.0	1205.0
15°	1086.5	1105.3	1140.7	1202.8	1191.7
17.5°	1062.1	1068.7	1116.4	1188.4	1181.7
20°	1035.5	1048.8	1086.5	1152.9	1164.0
22.5°	968.0	1004.5	1055.5	1121.9	1144.1
25°	929.2	946.9	1032.2	1078.7	1121.9
27.5°	881.6	913.7	994.5	1045.5	1102.0
30°	820.7	857.2	935.8	1011.2	1074.3
32.5°	790.8	804.1	886.0	983.5	1043.3
35°	714.3	762.0	839.5	949.1	1020.0
37.5°	662.3	691.1	785.2	915.9	984.6
40°	612.5	645.7	743.1	879.4	953.6
42.5°	564.8	594.7	697.7	842.8	927.0
45°	493.9	544.9	626.9	796.3	886.0
47.5°	445.2	477.3	571.5	739.8	642.4
50°	379.9	418.6	528.3	507.2	498.4
52.5°	332.3	353.3	476.2	428.6	197.1
55°	288.0	314.5	405.3	212.6	186.1
57.5°	254.7	272.4	311.2	197.1	177.2
60°	232.6	237.0	268.0	188.3	167.2
62.5°	208.2	212.6	213.7	178.3	157.3
65°	182.7	189.4	192.7	167.2	148.4
67.5°	163.9	165.0	169.4	155.1	139.5
70°	139.5	141.8	147.3	141.8	126.3
72.5°	118.5	121.8	125.1	126.3	113.0
75°	97.5	100.8	105.2	107.4	98.6
77.5°	79.7	80.8	85.3	90.8	84.2
80°	59.8	63.1	65.3	70.9	69.8
82.5°	43.2	44.3	47.6	52.1	54.3
85°	26.6	27.7	29.9	33.2	37.7
87.5°	11.1	12.2	13.3	15.5	17.7
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	17.65	19.13	18.01	19.44	19.76	15.40	16.87	15.76	17.19	17.50
	3H	19.24	20.56	19.62	20.89	21.25	17.73	19.05	18.11	19.38	19.75
	4H	19.84	21.08	20.24	21.43	21.81	18.68	19.92	19.08	20.26	20.64
	6H	20.30	21.44	20.71	21.81	22.20	19.47	20.61	19.88	20.98	21.37
	8H	20.45	21.54	20.88	21.93	22.33	19.78	20.86	20.20	21.25	21.66
	12H	20.55	21.59	20.98	21.98	22.41	20.02	21.06	20.45	21.45	21.88
4H	2H	18.22	19.46	18.62	19.81	20.19	16.55	17.79	16.95	18.14	18.52
	3H	20.04	21.07	20.45	21.47	21.87	18.99	20.02	19.40	20.42	20.82
	4H	20.78	21.70	21.21	22.11	22.55	20.04	20.96	20.47	21.38	21.82
	6H	21.37	22.17	21.83	22.61	23.07	20.94	21.74	21.39	22.18	22.64
	8H	21.56	22.31	22.03	22.76	23.23	21.28	22.03	21.75	22.48	22.94
	12H	21.71	22.38	22.19	22.86	23.33	21.57	22.24	22.05	22.72	23.19
8H	4H	21.08	21.83	21.55	22.28	22.74	20.44	21.19	20.91	21.64	22.11
	6H	21.80	22.42	22.30	22.92	23.39	21.49	22.11	21.98	22.60	23.08
	8H	22.08	22.64	22.59	23.15	23.63	21.92	22.49	22.44	23.00	23.48
	12H	22.29	22.79	22.80	23.28	23.85	22.31	22.81	22.82	23.30	23.86
12H	4H	21.12	21.79	21.60	22.27	22.74	20.48	21.15	20.96	21.63	22.10
	6H	21.87	22.43	22.38	22.94	23.43	21.55	22.12	22.07	22.63	23.11
	8H	22.20	22.70	22.71	23.19	23.76	22.06	22.56	22.57	23.05	23.61