

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: P892979

Luminaire Tested: 2MB-SC3-ASYMR-UNV-CC83-LOW-4000K

Issue Date: 11/11/2024

**Test Information**

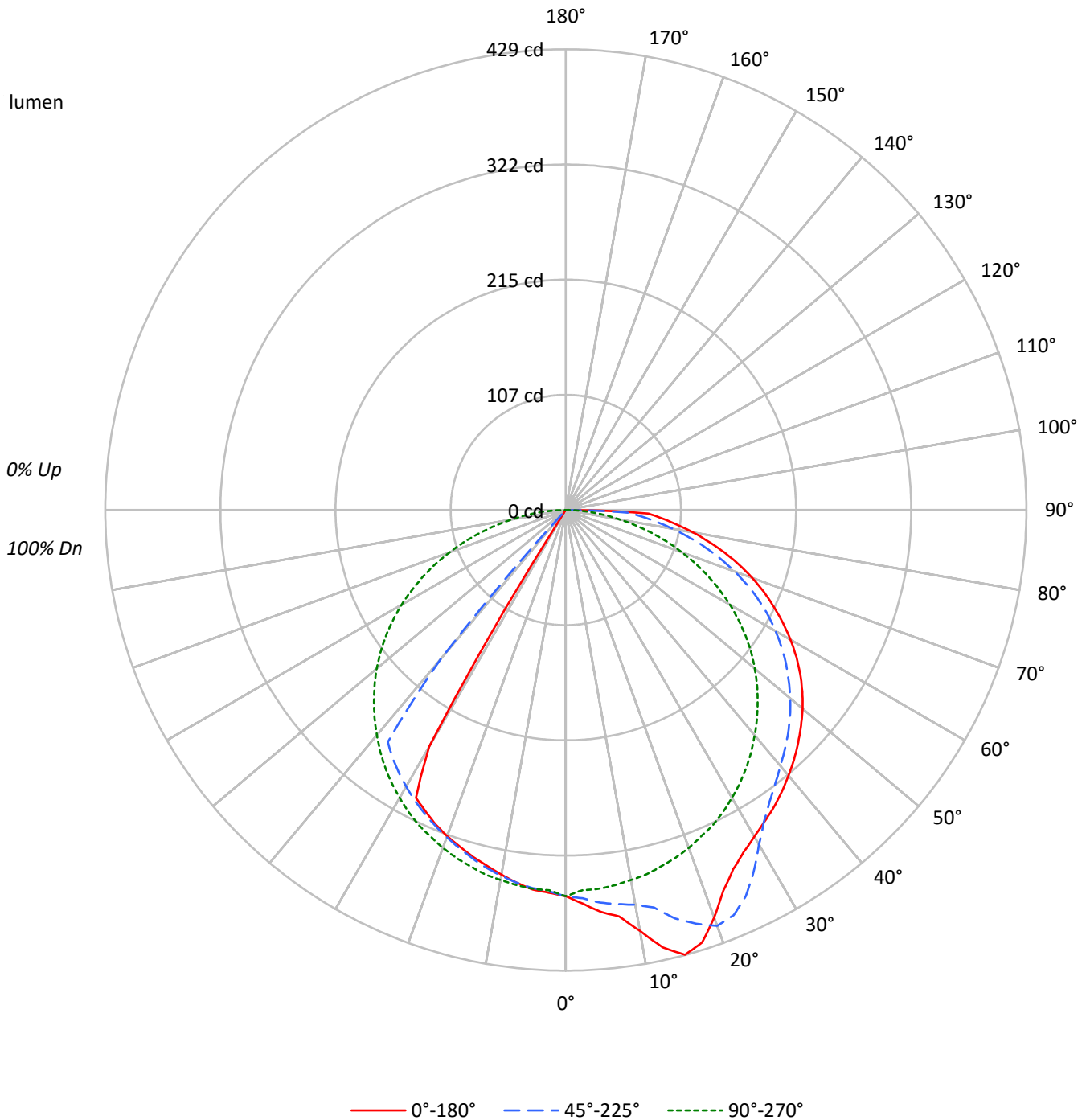
Test Method: LM-79-2019  
Report Number: P892979  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2410-248-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-ASYMR-UNV-CC83-LOW-4000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 80CRI, 4000K CCT, LOW setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 973.0 lumens  
Efficiency: N/A  
Efficacy: 141.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.25  
Luminous Opening: Rectangular (W 0.21' x L: 1.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 6.9  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.9915  
Total Harmonic Distortion (THDi): 6.67573310469889  
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			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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26

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

	0°	45°	90°	135°	180°
0°	9388	9388	9388	9388	9388
5°	9846	9618	9280	9262	9296
10°	10549	9894	9276	9167	9141
15°	11590	10644	9282	9079	9036
20°	11222	11450	9305	9007	8980
25°	10633	11428	9328	8976	8913
30°	10588	10847	9327	8966	7675
35°	10766	10550	9342	8969	105
40°	11002	10599	9328	6186	72
45°	11302	10815	9330	114	44
50°	11694	11084	9338	85	16
55°	12140	11402	9308	55	9
60°	12626	11785	9227	21	10
65°	13220	12250	9063	25	25
70°	14107	12763	8771	31	31
75°	15434	13588	8393	81	40
80°	18117	15200	7773	120	60
85°	26960	21358	7279	180	120

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 87.5°  
 Luminance: 46207 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.5	3.5
10°-20°	102.9	10.6
20°-30°	158.2	16.3
30°-40°	169.5	17.4
40°-50°	153.9	15.8
50°-60°	140.4	14.4
60°-70°	104.5	10.7
70°-80°	73.5	7.6
80°-90°	35.6	3.7
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°	295.5	30.4
0°-40°	465.0	47.8
0°-60°	759.4	78.0
0°-90°	973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	973.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	360	360	360	360	360	
5°	376	367	354	353	355	36
15°	429	394	343	336	334	118
25°	369	397	324	312	309	172
35°	338	331	293	281	3	212
45°	306	293	253	3	1	236
55°	267	250	204	1	0	238
65°	214	198	147	0	0	212
75°	153	135	83	1	0	161
85°	90	71	24	1	0	90
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6
2.5°	367.0	362.9	361.9	364.8	354.3	361.3	355.5	356.7	356.7
5°	375.7	369.9	367.0	366.2	354.1	358.8	353.4	353.4	354.7
7.5°	381.7	375.3	370.1	368.1	352.2	356.3	350.1	350.1	350.1
10°	397.9	386.0	373.2	369.5	349.9	353.0	345.8	346.2	344.8
12.5°	417.1	406.4	379.2	368.9	347.5	348.9	341.3	341.1	339.4
15°	428.8	420.8	393.8	368.1	343.4	344.6	335.9	335.3	334.3
17.5°	422.2	421.0	403.9	367.4	339.6	338.6	330.0	329.3	328.5
20°	403.9	407.0	412.1	366.2	334.9	332.8	324.2	323.8	323.2
22.5°	383.5	386.6	408.4	368.3	329.1	326.7	318.0	317.6	316.8
25°	369.1	369.1	396.7	373.2	323.8	319.3	311.6	311.0	309.4
27.5°	359.0	357.2	379.2	378.8	317.0	311.8	304.8	304.2	302.2
30°	351.2	348.1	359.8	381.5	309.4	303.8	297.4	296.8	254.6
32.5°	344.2	340.9	343.6	383.7	301.7	295.2	289.6	206.6	9.1
35°	337.8	334.1	331.0	382.1	293.1	286.5	281.4	6.0	3.3
37.5°	330.6	327.7	320.7	373.4	283.8	277.2	272.3	3.3	2.9
40°	322.8	320.1	311.0	360.7	273.7	268.2	181.5	2.9	2.1
42.5°	314.7	312.7	302.0	342.1	263.6	258.1	5.8	2.3	1.6
45°	306.1	304.2	292.9	319.7	252.7	247.6	3.1	1.6	1.2
47.5°	297.2	294.5	283.4	295.6	241.6	236.5	2.7	1.2	0.8
50°	287.9	285.1	272.9	274.4	229.9	224.7	2.1	0.8	0.4
52.5°	277.6	274.1	261.8	255.2	217.5	212.8	1.6	0.4	0.2
55°	266.7	262.8	250.5	238.5	204.5	199.2	1.2	0.4	0.2
57.5°	254.6	250.3	238.5	222.7	190.7	134.7	0.8	0.4	0.2
60°	241.8	237.5	225.7	207.8	176.7	9.3	0.4	0.4	0.2
62.5°	228.2	223.7	212.4	192.8	161.7	7.6	0.4	0.4	0.4
65°	214.0	208.6	198.3	177.3	146.7	6.4	0.4	0.4	0.4
67.5°	199.8	193.0	183.3	161.5	131.2	5.4	0.4	0.4	0.4
70°	184.8	177.3	167.2	145.4	114.9	4.3	0.4	0.4	0.4
72.5°	169.3	162.1	151.2	129.1	99.7	3.3	0.4	0.4	0.4
75°	153.0	146.4	134.7	112.9	83.2	2.5	0.8	0.4	0.4
77.5°	136.1	131.0	117.8	96.2	67.1	1.6	0.8	0.4	0.4
80°	120.5	114.7	101.1	79.3	51.7	1.2	0.8	0.6	0.4
82.5°	104.4	99.3	85.7	63.9	37.1	1.0	0.8	0.6	0.4
85°	90.0	85.1	71.3	49.8	24.3	0.8	0.6	0.6	0.4
87.5°	77.2	72.7	59.1	36.5	13.8	0.6	0.6	0.6	0.4
90°	0.0	0.0	0.0	0.0	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	22.31	23.93	22.68	24.24	24.56	17.74	19.36	18.11	19.67	19.99
	3H	24.76	26.22	25.14	26.55	26.91	18.39	19.85	18.76	20.18	20.54
	4H	25.88	27.27	26.28	27.61	27.99	18.53	19.91	18.93	20.26	20.64
	6H	26.98	28.26	27.39	28.63	29.02	18.57	19.86	18.98	20.22	20.61
	8H	27.51	28.73	27.93	29.12	29.52	18.56	19.79	18.98	20.18	20.58
	12H	28.07	29.25	28.50	29.63	30.06	18.54	19.72	18.97	20.10	20.53
4H	2H	22.97	24.35	23.37	24.70	25.08	18.87	20.25	19.27	20.60	20.98
	3H	25.66	26.83	26.07	27.22	27.62	20.21	21.38	20.62	21.78	22.18
	4H	26.95	28.02	27.38	28.43	28.86	20.75	21.81	21.18	22.22	22.66
	6H	28.23	29.17	28.69	29.61	30.06	21.02	21.96	21.48	22.40	22.85
	8H	28.86	29.74	29.32	30.18	30.65	21.06	21.94	21.52	22.38	22.84
	12H	29.55	30.34	30.03	30.82	31.28	21.07	21.86	21.55	22.34	22.81
8H	4H	27.32	28.19	27.78	28.64	29.10	21.70	22.57	22.16	23.01	23.48
	6H	28.80	29.54	29.29	30.02	30.50	22.29	23.02	22.78	23.51	23.98
	8H	29.58	30.25	30.09	30.75	31.24	22.46	23.13	22.97	23.63	24.12
	12H	30.47	31.07	30.98	31.56	32.11	22.57	23.16	23.07	23.65	24.21
12H	4H	27.36	28.15	27.84	28.62	29.09	21.91	22.71	22.39	23.18	23.65
	6H	28.89	29.55	29.40	30.06	30.54	22.64	23.30	23.14	23.81	24.29
	8H	29.77	30.36	30.27	30.85	31.41	22.95	23.54	23.45	24.03	24.59