

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: P892955

Luminaire Tested: 2MB-SC3-ASMF-UNV-CC93-MID-4000K

Issue Date: 11/11/2024

**Test Information**

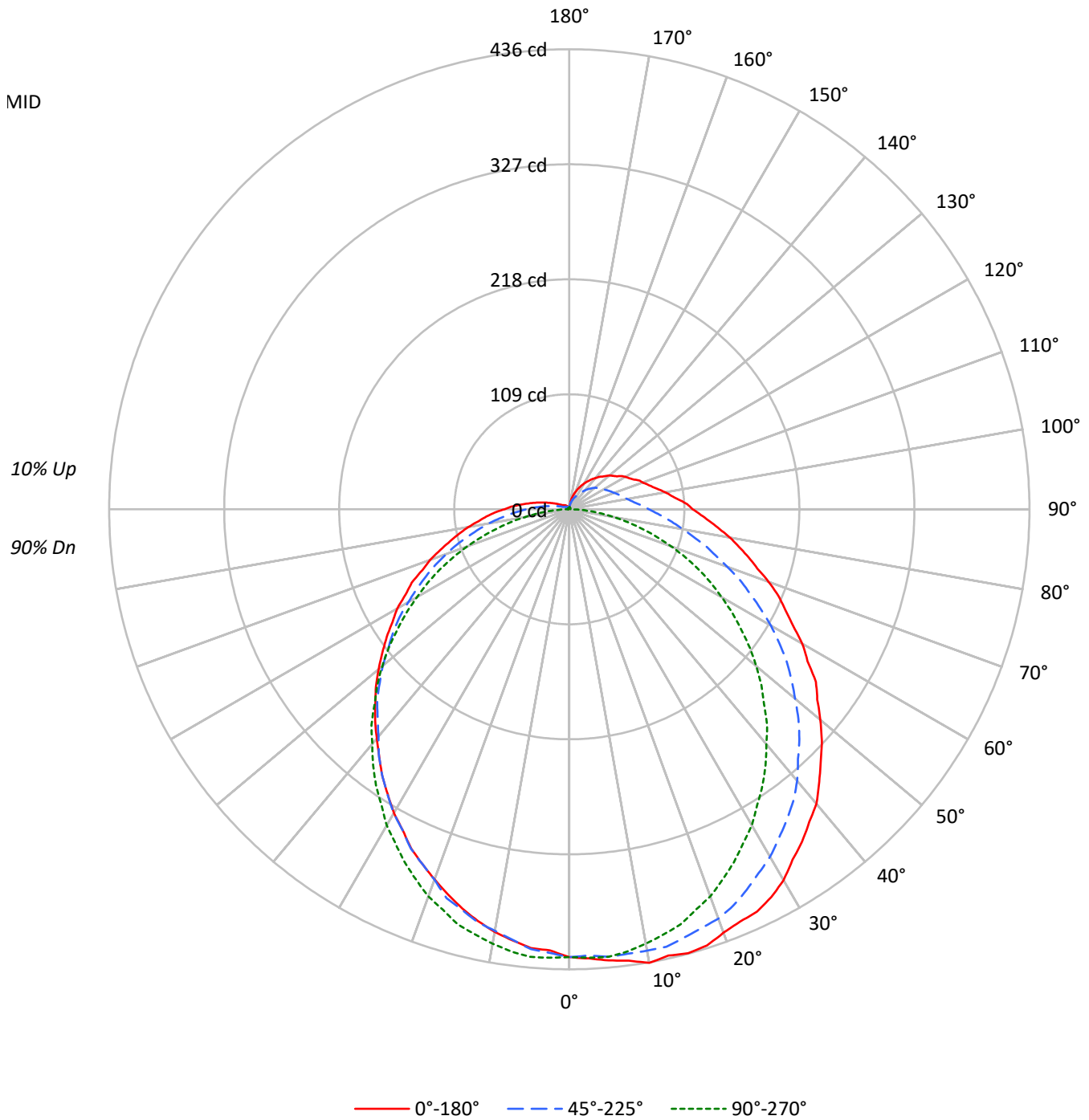
Test Method: LM-79-2019  
Report Number: P892955  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-185-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-ASMF-UNV-CC93-MID-4000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 90CRI, 4000K CCT, 1 lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1459.0 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.21 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 1.98' x H: 0.12')  
CIE Type: Direct  
  
Input Watts (W): 13.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.9948  
Total Harmonic Distortion (THDi): 5.65231997856897  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P892955  
CATALOG NUMBER: 2MB-SC3-ASMF-UNV-CC93-MID-4000K

### 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	50	30	10	0
RCR																					
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	93	93	93	90
1	105	99	95	90	101	96	92	88	90	87	83	85	82	79	79	77	75	75	75	75	72
2	95	86	79	72	91	83	76	71	78	72	68	73	69	65	69	65	62	62	62	62	59
3	86	75	66	60	83	73	65	58	68	62	56	64	59	54	60	56	52	52	52	52	49
4	79	66	57	50	76	64	56	49	61	53	48	57	51	46	54	49	44	44	44	44	42
5	72	59	50	43	69	57	49	42	54	47	41	51	45	40	48	43	38	38	38	38	36
6	67	53	44	37	64	52	43	37	49	41	36	46	40	35	44	38	34	34	34	34	31
7	62	48	39	33	59	47	38	32	44	37	32	42	36	31	40	34	30	30	30	30	28
8	57	44	35	29	55	43	35	29	41	33	28	39	32	27	37	31	27	27	27	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	24	24	24	22
10	50	37	29	24	49	36	29	23	34	28	23	33	27	22	31	26	22	22	22	22	20

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

	0°	45°	90°	135°	180°
0°	8690	8690	8690	8690	8690
5°	8774	8472	8406	8325	8532
10°	8976	8281	8025	7909	8365
15°	9081	8092	7669	7566	8165
20°	9098	7911	7263	7158	7950
25°	9235	7643	6837	6820	7782
30°	9260	7385	6431	6455	7581
35°	9204	7106	6003	6104	7390
40°	9248	6819	5567	5713	7202
45°	9176	6482	5136	5411	7079
50°	9196	6135	4721	5067	6983
55°	9339	5832	4244	4725	6913
60°	9413	5461	3759	4361	6947
65°	9635	5056	3265	4001	7028
70°	10259	4670	2676	3653	7158
75°	11262	4385	2047	3255	7471
80°	13431	4104	1369	2899	8421
85°	18269	4014	689	2533	10738

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 90°  
 Luminance: 37897 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.3	2.8
10°-20°	115.4	7.9
20°-30°	174.0	11.9
30°-40°	208.9	14.3
40°-50°	217.5	14.9
50°-60°	201.6	13.8
60°-70°	166.0	11.4
70°-80°	119.8	8.2
80°-90°	76.0	5.2
90°-100°	46.9	3.2
100°-110°	31.3	2.1
110°-120°	22.3	1.5
120°-130°	16.3	1.1
130°-140°	11.2	0.8
140°-150°	6.8	0.5
150°-160°	3.4	0.2
160°-170°	1.2	0.1
170°-180°	0.2	0.0
0°-30°	329.7	22.6
0°-40°	538.5	36.9
0°-60°	957.6	65.6
0°-90°	1319.4	90.4
90°-120°	100.4	6.9
90°-150°	134.7	9.2
90°-180°	140.0	9.6
0°-180°	1459.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	424	424	424	424	424	
5°	429	426	426	418	417	41
15°	436	420	407	393	392	123
25°	421	398	369	355	355	194
35°	384	359	319	309	309	241
45°	337	308	261	257	260	261
55°	285	251	199	204	211	253
65°	226	189	135	149	165	225
75°	176	134	71	99	117	186
85°	134	91	19	57	79	114
90°	117	76	2	41	61	64
95°	104	64	1	27	47	83
105°	82	50	1	11	25	87
115°	67	41	1	5	12	67
125°	54	35	2	4	7	50
135°	44	28	2	3	5	34
145°	34	20	2	2	4	21
155°	23	13	2	2	2	11
165°	13	7	2	1	1	4
175°	2	3	2	1	0	0
180°	1	1	1	1	1	



TEST NUMBER: P892955

CATALOG NUMBER: 2MB-SC3-ASMF-UNV-CC93-MID-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	424.4	424.4	424.4	424.4	424.4	424.4	424.4	424.4	424.4
2.5°	426.1	427.3	423.3	425.8	425.4	425.8	420.8	425.0	418.4
5°	429.2	429.9	425.8	427.3	425.8	422.2	418.4	416.9	417.4
7.5°	431.4	434.8	424.8	425.2	422.7	418.8	411.6	412.9	412.1
10°	436.5	432.6	424.8	422.9	418.0	414.0	405.7	406.3	406.8
12.5°	433.3	432.4	424.6	417.6	412.7	409.3	400.8	398.7	399.7
15°	435.6	432.0	420.3	414.8	407.4	401.4	393.0	391.5	391.7
17.5°	433.5	430.5	416.1	408.4	398.1	394.4	386.4	383.8	382.6
20°	427.1	425.6	412.9	399.7	390.4	383.4	373.6	372.2	373.2
22.5°	422.9	419.3	406.5	393.4	379.8	373.6	363.9	363.7	363.9
25°	420.8	416.1	397.8	384.0	369.0	363.5	355.0	351.8	354.6
27.5°	414.4	410.1	388.7	373.6	356.9	349.5	342.5	341.8	342.2
30°	405.9	397.6	380.4	362.0	345.9	338.2	332.5	328.2	332.3
32.5°	393.8	389.1	369.6	349.5	331.6	326.3	320.6	320.2	320.2
35°	384.5	381.1	359.4	338.4	319.3	312.1	308.7	307.2	308.7
37.5°	373.6	368.6	348.6	325.1	305.5	299.4	296.0	294.7	295.8
40°	364.3	355.0	335.9	311.3	290.5	285.0	281.4	282.6	283.7
42.5°	350.5	345.2	320.8	297.3	277.5	271.6	268.6	269.7	272.2
45°	336.9	332.1	308.3	282.6	260.8	257.6	257.4	256.7	259.9
47.5°	324.6	317.6	294.5	268.2	246.8	243.2	243.6	245.7	248.5
50°	310.4	302.1	279.2	252.7	231.3	228.9	230.6	232.1	235.7
52.5°	296.2	289.6	265.2	238.1	215.6	213.9	216.2	221.1	223.2
55°	285.2	273.3	251.4	220.9	198.8	199.0	203.7	206.5	211.1
57.5°	267.6	258.6	235.7	205.6	183.1	184.6	191.0	195.6	198.6
60°	255.0	243.8	220.5	189.3	166.6	168.9	176.1	183.1	188.2
62.5°	238.9	229.2	204.5	173.1	151.3	154.7	162.7	171.0	174.6
65°	225.8	214.7	188.8	157.0	135.4	139.4	149.4	158.7	164.7
67.5°	214.5	203.1	174.8	142.2	119.2	125.2	136.9	146.0	150.6
70°	201.1	187.8	158.9	125.6	102.5	109.5	124.3	134.9	140.3
72.5°	186.9	176.1	145.1	110.3	87.0	95.5	111.8	122.9	127.9
75°	175.9	163.8	133.5	95.1	71.3	81.5	99.1	111.6	116.7
77.5°	164.7	153.6	120.3	81.1	57.3	68.7	87.8	101.6	106.9
80°	154.7	141.9	109.3	69.6	42.6	56.2	77.2	90.8	97.0
82.5°	143.6	132.6	99.7	57.5	30.3	44.8	66.8	81.7	86.8
85°	133.9	122.4	90.8	48.0	18.7	34.6	57.3	72.6	78.7
87.5°	125.0	115.4	82.5	40.7	9.3	26.3	48.2	63.7	70.7
90°	116.9	106.1	75.5	34.2	1.7	19.1	40.7	56.0	61.3
92.5°	111.8	98.9	69.8	29.9	1.1	13.6	33.9	49.0	55.2
95°	104.2	92.7	63.9	26.7	1.1	9.1	27.4	42.0	47.3
97.5°	97.6	87.0	59.6	24.8	0.8	6.2	22.5	35.2	40.7
100°	92.5	82.5	55.8	23.1	1.1	4.5	17.8	29.9	34.8
102.5°	86.8	77.7	52.8	22.1	1.1	3.2	14.0	25.2	29.7
105°	81.7	73.6	50.1	21.0	1.1	2.8	11.2	20.8	24.8
107.5°	77.9	69.4	47.7	20.4	1.1	2.8	8.9	17.0	20.4
110°	74.1	66.0	45.4	19.7	1.1	2.5	7.0	14.0	17.0



TEST NUMBER: P892955

CATALOG NUMBER: 2MB-SC3-ASM-F-UNV-CC93-MID-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	71.5	62.8	43.3	19.1	1.3	2.5	5.7	11.7	14.0
115°	67.0	60.0	41.4	18.9	1.3	2.3	5.3	9.5	11.9
117.5°	63.9	57.5	39.5	18.2	1.3	2.3	5.1	7.9	9.5
120°	61.5	54.5	37.8	17.6	1.3	2.1	4.7	7.0	8.1
122.5°	58.6	51.8	36.3	17.2	1.3	2.1	4.5	6.6	7.2
125°	54.5	49.2	34.6	16.3	1.5	2.1	4.2	6.2	6.8
127.5°	52.0	46.9	33.3	15.3	1.5	1.9	4.0	5.7	6.4
130°	49.9	44.3	31.8	14.2	1.5	1.9	3.8	5.3	5.9
132.5°	46.7	41.8	29.7	13.4	1.5	1.7	3.4	4.9	5.5
135°	43.7	39.7	27.6	12.5	1.5	1.7	3.2	4.7	5.1
137.5°	41.8	37.6	25.7	11.7	1.5	1.5	3.0	4.2	4.7
140°	38.6	35.2	23.6	10.8	1.5	1.5	2.8	4.0	4.2
142.5°	36.3	32.9	21.6	10.0	1.5	1.5	2.5	3.6	4.0
145°	33.5	30.6	19.5	9.1	1.5	1.3	2.3	3.4	3.6
147.5°	31.0	27.8	17.8	8.5	1.5	1.3	2.1	3.0	3.2
150°	28.4	25.0	16.1	7.9	1.5	1.3	1.9	2.5	3.0
152.5°	25.7	21.6	14.4	7.2	1.5	1.3	1.7	2.3	2.5
155°	22.9	18.9	12.9	6.6	1.7	1.3	1.5	1.9	2.3
157.5°	20.6	16.3	11.5	5.9	1.7	1.1	1.5	1.7	1.9
160°	17.8	14.0	10.2	5.3	1.7	1.1	1.3	1.5	1.7
162.5°	15.7	11.7	8.9	4.9	1.7	1.1	1.3	1.3	1.5
165°	13.4	9.8	7.4	4.5	1.7	1.1	1.1	1.1	1.3
167.5°	10.8	7.6	6.2	4.0	1.7	1.1	1.1	0.8	1.1
170°	8.1	5.7	5.1	3.6	1.7	1.1	0.8	0.6	0.8
172.5°	3.6	4.5	4.0	3.2	1.9	1.1	0.8	0.6	0.4
175°	1.9	3.2	3.2	2.8	1.9	1.1	0.8	0.6	0.2
177.5°	1.5	1.9	2.3	2.3	1.9	1.3	0.8	0.4	0.2
180°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3



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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	17.84	19.32	18.35	19.82	20.37	16.72	18.20	17.23	18.70	19.24
	3H	19.93	21.28	20.45	21.79	22.38	18.56	19.91	19.08	20.42	21.00
	4H	20.88	22.16	21.42	22.68	23.28	19.28	20.56	19.82	21.09	21.68
	6H	21.80	22.99	22.35	23.53	24.14	19.88	21.07	20.43	21.61	22.22
	8H	22.23	23.37	22.79	23.93	24.55	20.11	21.25	20.68	21.82	22.43
	12H	22.65	23.74	23.22	24.30	24.95	20.32	21.41	20.89	21.97	22.61
4H	2H	18.32	19.60	18.86	20.13	20.73	17.29	18.57	17.83	19.10	19.69
	3H	20.64	21.73	21.19	22.30	22.92	19.32	20.41	19.87	20.97	21.59
	4H	21.76	22.75	22.33	23.33	23.98	20.15	21.14	20.72	21.72	22.37
	6H	22.86	23.74	23.46	24.35	25.01	20.87	21.75	21.46	22.35	23.01
	8H	23.39	24.22	23.99	24.82	25.50	21.16	21.99	21.76	22.59	23.27
	12H	23.92	24.67	24.54	25.30	25.98	21.43	22.18	22.05	22.81	23.49
8H	4H	22.00	22.83	22.60	23.43	24.11	20.49	21.32	21.09	21.92	22.60
	6H	23.29	23.99	23.92	24.63	25.31	21.34	22.05	21.97	22.69	23.37
	8H	23.96	24.59	24.60	25.24	25.94	21.72	22.35	22.36	23.01	23.70
	12H	24.66	25.23	25.31	25.87	26.63	22.08	22.64	22.72	23.29	24.04
12H	4H	22.02	22.77	22.64	23.40	24.08	20.56	21.31	21.18	21.94	22.62
	6H	23.34	23.97	23.98	24.63	25.32	21.46	22.09	22.10	22.74	23.44
	8H	24.08	24.65	24.73	25.29	26.05	21.90	22.46	22.54	23.10	23.86