

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: P892954

Luminaire Tested: 2MB-SC3-ASMF-UNV-CC93-MID-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892954
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-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 90CRI, 3500K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

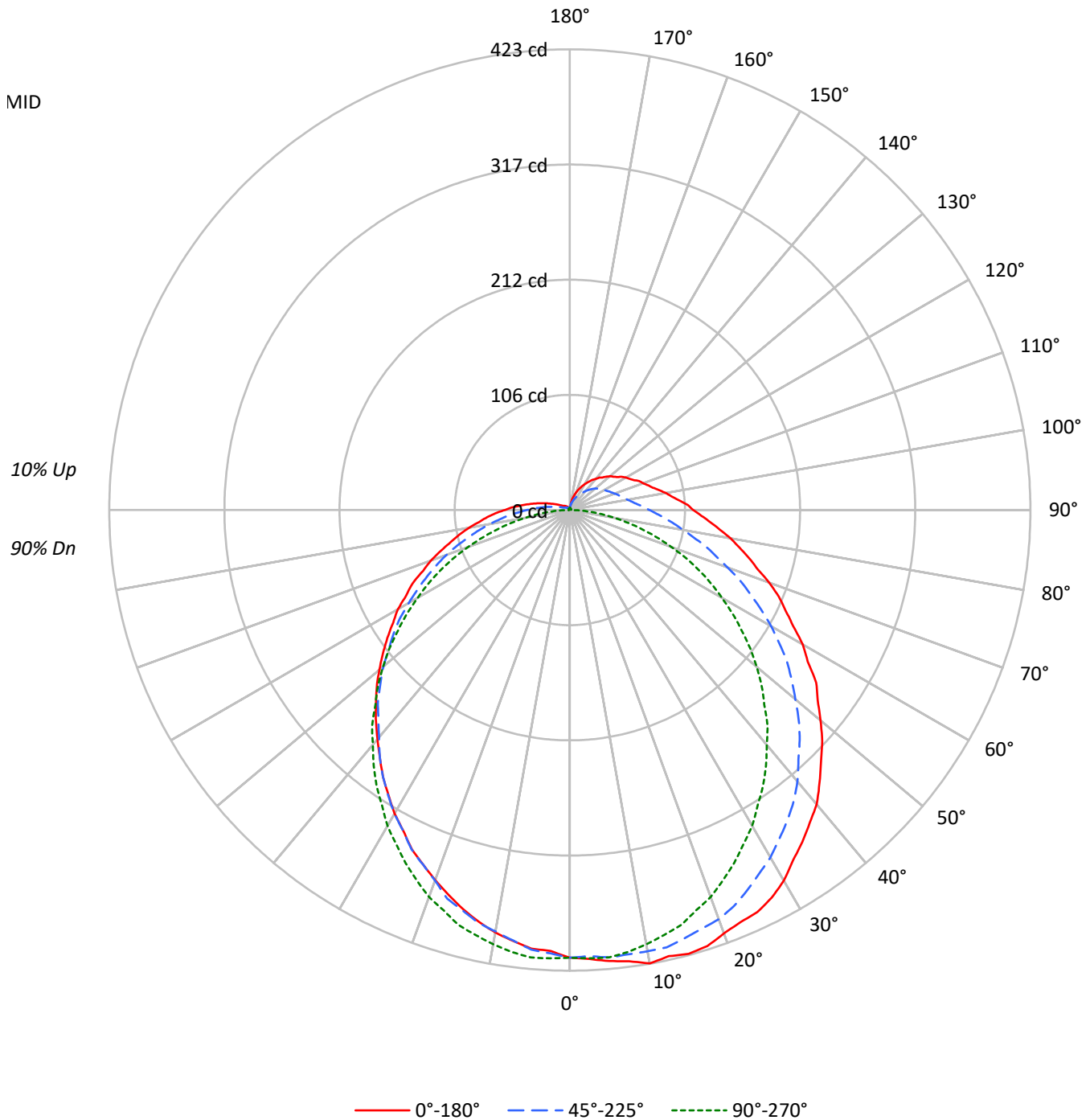
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1413.0 lumens
Efficiency: N/A
Efficacy: 101.7 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: P892954
CATALOG NUMBER: 2MB-SC3-ASMF-UNV-CC93-MID-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P892954

CATALOG NUMBER: 2MB-SC3-ASMF-UNV-CC93-MID-3500K

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°	8416	8416	8416	8416	8416
5°	8498	8206	8142	8063	8263
10°	8692	8020	7772	7660	8100
15°	8795	7837	7427	7327	7907
20°	8812	7662	7034	6934	7700
25°	8943	7402	6620	6605	7537
30°	8968	7152	6227	6251	7341
35°	8912	6883	5815	5912	7158
40°	8956	6604	5391	5532	6973
45°	8888	6278	4972	5241	6856
50°	8905	5941	4572	4909	6764
55°	9044	5648	4110	4577	6697
60°	9118	5287	3639	4225	6730
65°	9328	4898	3161	3875	6806
70°	9938	4523	2593	3539	6928
75°	10910	4247	1981	3153	7235
80°	13006	3973	1327	2809	8152
85°	17696	3891	667	2454	10397

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 36698 cd/sqm



TEST NUMBER: P892954

CATALOG NUMBER: 2MB-SC3-ASMF-UNV-CC93-MID-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.0	2.8
10°-20°	111.8	7.9
20°-30°	168.5	11.9
30°-40°	202.3	14.3
40°-50°	210.6	14.9
50°-60°	195.2	13.8
60°-70°	160.8	11.4
70°-80°	116.0	8.2
80°-90°	73.6	5.2
90°-100°	45.4	3.2
100°-110°	30.3	2.1
110°-120°	21.6	1.5
120°-130°	15.8	1.1
130°-140°	10.9	0.8
140°-150°	6.6	0.5
150°-160°	3.3	0.2
160°-170°	1.2	0.1
170°-180°	0.2	0.0
0°-30°	319.3	22.6
0°-40°	521.6	36.9
0°-60°	927.4	65.6
0°-90°	1277.9	90.4
90°-120°	97.2	6.9
90°-150°	130.5	9.2
90°-180°	135.0	9.6
0°-180°	1413.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	411	411	411	411	411	
5°	416	412	412	405	404	40
15°	422	407	394	381	379	119
25°	408	385	357	344	343	187
35°	372	348	309	299	299	233
45°	326	299	252	249	252	252
55°	276	244	192	197	204	245
65°	219	183	131	145	160	218
75°	170	129	69	96	113	181
85°	130	88	18	56	76	110
90°	113	73	2	40	59	62
95°	101	62	1	26	46	80
105°	79	48	1	11	24	84
115°	65	40	1	5	12	65
125°	53	34	1	4	7	48
135°	42	27	1	3	5	33
145°	32	19	1	2	4	21
155°	22	12	2	1	2	10
165°	13	7	2	1	1	4
175°	2	3	2	1	0	0
180°	1	1	1	1	1	



TEST NUMBER: P892954

CATALOG NUMBER: 2MB-SC3-ASMF-UNV-CC93-MID-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0
2.5°	412.6	413.9	410.0	412.4	412.0	412.4	407.5	411.6	405.2
5°	415.7	416.3	412.4	413.9	412.4	408.9	405.2	403.8	404.2
7.5°	417.8	421.1	411.4	411.8	409.3	405.6	398.7	399.9	399.1
10°	422.7	419.0	411.4	409.5	404.8	400.9	392.9	393.5	393.9
12.5°	419.6	418.8	411.2	404.4	399.7	396.4	388.2	386.1	387.1
15°	421.9	418.4	407.1	401.7	394.5	388.8	380.6	379.1	379.3
17.5°	419.8	416.9	403.0	395.6	385.5	382.0	374.2	371.7	370.5
20°	413.7	412.2	399.9	387.1	378.1	371.3	361.9	360.4	361.5
22.5°	409.5	406.0	393.7	381.0	367.8	361.9	352.4	352.2	352.4
25°	407.5	403.0	385.3	371.9	357.3	352.0	343.8	340.7	343.4
27.5°	401.3	397.2	376.5	361.9	345.6	338.4	331.7	331.0	331.5
30°	393.1	385.1	368.4	350.6	334.9	327.6	322.0	317.9	321.8
32.5°	381.4	376.9	358.0	338.4	321.2	316.0	310.5	310.1	310.1
35°	372.3	369.1	348.1	327.8	309.3	302.3	299.0	297.6	299.0
37.5°	361.9	356.9	337.6	314.8	295.9	289.9	286.7	285.4	286.5
40°	352.8	343.8	325.3	301.5	281.3	276.0	272.5	273.7	274.7
42.5°	339.5	334.3	310.7	287.9	268.8	263.0	260.2	261.2	263.6
45°	326.3	321.6	298.6	273.7	252.5	249.5	249.3	248.6	251.7
47.5°	314.4	307.6	285.2	259.7	239.0	235.5	235.9	238.0	240.6
50°	300.6	292.6	270.4	244.7	224.0	221.7	223.4	224.8	228.3
52.5°	286.9	280.5	256.9	230.6	208.8	207.1	209.4	214.1	216.2
55°	276.2	264.7	243.5	213.9	192.5	192.8	197.3	199.9	204.5
57.5°	259.1	250.5	228.3	199.1	177.3	178.8	184.9	189.5	192.3
60°	247.0	236.1	213.5	183.3	161.3	163.6	170.6	177.3	182.3
62.5°	231.4	221.9	198.1	167.7	146.5	149.8	157.6	165.6	169.1
65°	218.6	208.0	182.9	152.1	131.1	135.0	144.7	153.7	159.5
67.5°	207.8	196.7	169.3	137.7	115.5	121.2	132.5	141.4	145.9
70°	194.8	181.9	153.9	121.7	99.3	106.0	120.4	130.7	135.8
72.5°	181.0	170.6	140.6	106.9	84.3	92.5	108.3	119.0	123.9
75°	170.4	158.6	129.3	92.1	69.0	78.9	96.0	108.1	113.0
77.5°	159.5	148.8	116.5	78.5	55.5	66.6	85.1	98.4	103.6
80°	149.8	137.5	105.8	67.4	41.3	54.5	74.8	88.0	93.9
82.5°	139.1	128.4	96.6	55.7	29.4	43.4	64.7	79.1	84.0
85°	129.7	118.6	88.0	46.4	18.1	33.5	55.5	70.3	76.2
87.5°	121.0	111.8	79.9	39.5	9.0	25.5	46.6	61.6	68.4
90°	113.2	102.7	73.2	33.1	1.6	18.5	39.5	54.2	59.4
92.5°	108.3	95.8	67.6	29.0	1.0	13.2	32.9	47.5	53.4
95°	100.9	89.8	61.9	25.9	1.0	8.8	26.5	40.7	45.8
97.5°	94.5	84.3	57.7	24.0	0.8	6.0	21.8	34.1	39.5
100°	89.6	79.9	54.0	22.4	1.0	4.3	17.3	29.0	33.7
102.5°	84.0	75.2	51.2	21.4	1.0	3.1	13.6	24.5	28.8
105°	79.1	71.3	48.5	20.3	1.0	2.7	10.9	20.1	24.0
107.5°	75.4	67.2	46.2	19.7	1.0	2.7	8.6	16.4	19.7
110°	71.7	63.9	44.0	19.1	1.0	2.5	6.8	13.6	16.4



TEST NUMBER: P892954

CATALOG NUMBER: 2MB-SC3-ASMF-UNV-CC93-MID-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	69.3	60.8	41.9	18.5	1.2	2.5	5.5	11.3	13.6
115°	64.9	58.2	40.1	18.3	1.2	2.3	5.1	9.2	11.5
117.5°	61.9	55.7	38.2	17.7	1.2	2.3	4.9	7.6	9.2
120°	59.6	52.8	36.6	17.1	1.2	2.1	4.5	6.8	7.8
122.5°	56.7	50.1	35.1	16.6	1.2	2.1	4.3	6.4	7.0
125°	52.8	47.7	33.5	15.8	1.4	2.1	4.1	6.0	6.6
127.5°	50.3	45.4	32.3	14.8	1.4	1.8	3.9	5.5	6.2
130°	48.3	42.9	30.8	13.8	1.4	1.8	3.7	5.1	5.8
132.5°	45.2	40.5	28.8	12.9	1.4	1.6	3.3	4.7	5.3
135°	42.3	38.4	26.7	12.1	1.4	1.6	3.1	4.5	4.9
137.5°	40.5	36.4	24.9	11.3	1.4	1.4	2.9	4.1	4.5
140°	37.4	34.1	22.8	10.5	1.4	1.4	2.7	3.9	4.1
142.5°	35.1	31.9	21.0	9.7	1.4	1.4	2.5	3.5	3.9
145°	32.5	29.6	18.9	8.8	1.4	1.2	2.3	3.3	3.5
147.5°	30.0	26.9	17.3	8.2	1.4	1.2	2.1	2.9	3.1
150°	27.5	24.2	15.6	7.6	1.4	1.2	1.8	2.5	2.9
152.5°	24.9	21.0	14.0	7.0	1.4	1.2	1.6	2.3	2.5
155°	22.2	18.3	12.5	6.4	1.6	1.2	1.4	1.8	2.3
157.5°	19.9	15.8	11.1	5.8	1.6	1.0	1.4	1.6	1.8
160°	17.3	13.6	9.9	5.1	1.6	1.0	1.2	1.4	1.6
162.5°	15.2	11.3	8.6	4.7	1.6	1.0	1.2	1.2	1.4
165°	12.9	9.5	7.2	4.3	1.6	1.0	1.0	1.0	1.2
167.5°	10.5	7.4	6.0	3.9	1.6	1.0	1.0	0.8	1.0
170°	7.8	5.5	4.9	3.5	1.6	1.0	0.8	0.6	0.8
172.5°	3.5	4.3	3.9	3.1	1.8	1.0	0.8	0.6	0.4
175°	1.8	3.1	3.1	2.7	1.8	1.0	0.8	0.6	0.2
177.5°	1.4	1.8	2.3	2.3	1.8	1.2	0.8	0.4	0.2
180°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2



TEST NUMBER: P892954
 CATALOG NUMBER: 2MB-SC3-ASMF-UNV-CC93-MID-3500K

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	17.73	19.21	18.24	19.71	20.26	16.61	18.09	17.11	18.59	19.13
	3H	19.82	21.17	20.34	21.68	22.26	18.45	19.79	18.96	20.30	20.89
	4H	20.77	22.04	21.31	22.57	23.17	19.17	20.44	19.71	20.97	21.57
	6H	21.69	22.88	22.24	23.42	24.03	19.77	20.96	20.32	21.50	22.11
	8H	22.12	23.26	22.68	23.82	24.44	20.00	21.14	20.57	21.71	22.32
	12H	22.54	23.63	23.11	24.19	24.84	20.21	21.30	20.78	21.86	22.50
4H	2H	18.21	19.49	18.75	20.02	20.62	17.18	18.46	17.72	18.98	19.58
	3H	20.53	21.62	21.08	22.19	22.81	19.21	20.29	19.76	20.86	21.48
	4H	21.65	22.64	22.22	23.22	23.87	20.04	21.03	20.61	21.61	22.26
	6H	22.75	23.63	23.35	24.24	24.90	20.76	21.64	21.35	22.24	22.90
	8H	23.28	24.11	23.88	24.71	25.39	21.05	21.88	21.65	22.48	23.16
	12H	23.81	24.56	24.43	25.19	25.87	21.32	22.07	21.94	22.70	23.38
8H	4H	21.89	22.72	22.49	23.32	24.00	20.38	21.21	20.98	21.81	22.49
	6H	23.18	23.88	23.81	24.52	25.20	21.23	21.94	21.86	22.58	23.26
	8H	23.85	24.48	24.49	25.13	25.83	21.61	22.24	22.25	22.90	23.59
	12H	24.55	25.12	25.20	25.76	26.52	21.97	22.53	22.61	23.18	23.93
12H	4H	21.91	22.66	22.53	23.29	23.97	20.45	21.20	21.07	21.83	22.51
	6H	23.23	23.86	23.87	24.52	25.21	21.35	21.98	21.99	22.63	23.32
	8H	23.97	24.54	24.61	25.18	25.94	21.79	22.35	22.43	22.99	23.75