

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: P892956

Luminaire Tested: 2MB-SC3-ASMF-UNV-CC93-MID-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892956
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-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 90CRI, 5000K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

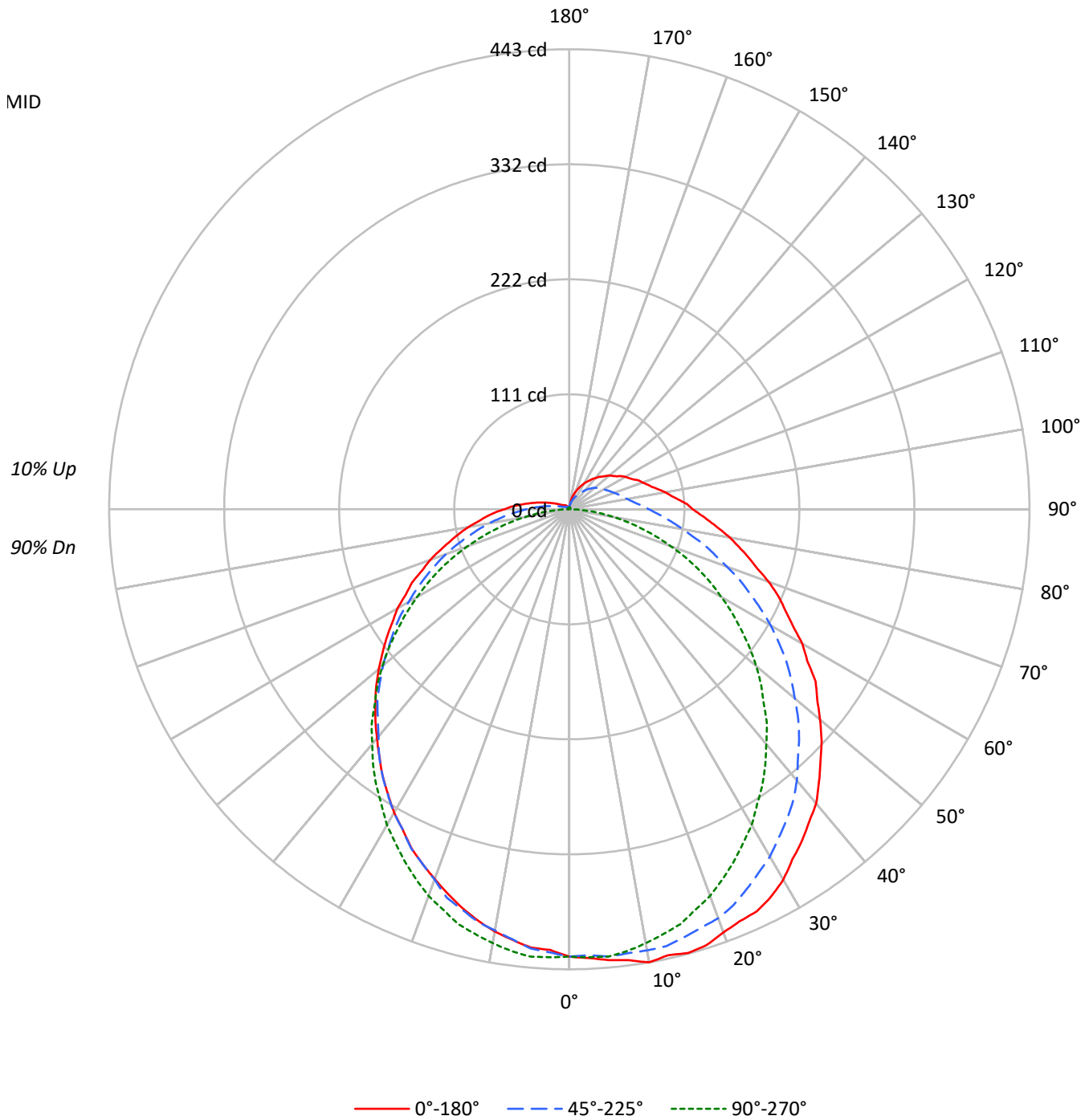
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1481.0 lumens
Efficiency: N/A
Efficacy: 106.5 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

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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	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	60	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°	8821	8821	8821	8821	8821
5°	8906	8602	8534	8451	8661
10°	9110	8406	8146	8028	8491
15°	9218	8215	7784	7680	8288
20°	9236	8029	7373	7267	8071
25°	9374	7758	6939	6922	7899
30°	9399	7498	6528	6552	7695
35°	9343	7215	6094	6197	7502
40°	9387	6921	5651	5798	7311
45°	9315	6578	5212	5493	7185
50°	9335	6227	4792	5144	7089
55°	9480	5920	4309	4797	7017
60°	9557	5542	3815	4428	7051
65°	9780	5133	3313	4060	7130
70°	10417	4741	2715	3709	7265
75°	11428	4451	2078	3304	7587
80°	13631	4164	1392	2944	8543
85°	18542	4076	700	2573	10901

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 38481 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.9	2.8
10°-20°	117.1	7.9
20°-30°	176.6	11.9
30°-40°	212.0	14.3
40°-50°	220.8	14.9
50°-60°	204.6	13.8
60°-70°	168.5	11.4
70°-80°	121.6	8.2
80°-90°	77.2	5.2
90°-100°	47.6	3.2
100°-110°	31.7	2.1
110°-120°	22.6	1.5
120°-130°	16.6	1.1
130°-140°	11.4	0.8
140°-150°	6.9	0.5
150°-160°	3.4	0.2
160°-170°	1.3	0.1
170°-180°	0.2	0.0
0°-30°	334.7	22.6
0°-40°	546.7	36.9
0°-60°	972.1	65.6
0°-90°	1339.4	90.4
90°-120°	101.9	6.9
90°-150°	136.8	9.2
90°-180°	142.0	9.6
0°-180°	1481.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	431	431	431	431	431	
5°	436	432	432	425	424	42
15°	442	427	414	399	398	125
25°	427	404	374	360	360	196
35°	390	365	324	313	313	245
45°	342	313	265	261	264	265
55°	290	255	202	207	214	257
65°	229	192	137	152	167	228
75°	178	136	72	101	118	189
85°	136	92	19	58	80	115
90°	119	77	2	41	62	65
95°	106	65	1	28	48	84
105°	83	51	1	11	25	89
115°	68	42	1	5	12	68
125°	55	35	2	4	7	50
135°	44	28	2	3	5	35
145°	34	20	2	2	4	22
155°	23	13	2	2	2	11
165°	14	8	2	1	1	4
175°	2	3	2	1	0	0
180°	1	1	1	1	1	



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CATALOG NUMBER: 2MB-SC3-ASMF-UNV-CC93-MID-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8
2.5°	432.5	433.8	429.7	432.3	431.8	432.3	427.1	431.4	424.7
5°	435.7	436.4	432.3	433.8	432.3	428.6	424.7	423.2	423.7
7.5°	437.9	441.3	431.2	431.6	429.0	425.2	417.8	419.1	418.3
10°	443.0	439.2	431.2	429.3	424.3	420.2	411.8	412.5	412.9
12.5°	439.8	438.9	431.0	423.9	418.9	415.5	406.9	404.7	405.8
15°	442.2	438.5	426.7	421.1	413.5	407.5	398.9	397.4	397.6
17.5°	440.0	437.0	422.4	414.6	404.1	400.4	392.2	389.6	388.3
20°	433.6	432.1	419.1	405.8	396.3	389.2	379.3	377.8	378.9
22.5°	429.3	425.6	412.7	399.3	385.5	379.3	369.4	369.2	369.4
25°	427.1	422.4	403.8	389.8	374.5	368.9	360.3	357.1	359.9
27.5°	420.6	416.3	394.6	379.3	362.3	354.7	347.6	347.0	347.4
30°	412.0	403.6	386.2	367.4	351.1	343.3	337.5	333.2	337.3
32.5°	399.7	395.0	375.2	354.7	336.6	331.3	325.4	325.0	325.0
35°	390.3	386.8	364.9	343.5	324.1	316.8	313.4	311.9	313.4
37.5°	379.3	374.1	353.9	330.0	310.1	303.9	300.5	299.2	300.2
40°	369.8	360.3	340.9	316.0	294.9	289.3	285.6	286.9	288.0
42.5°	355.8	350.4	325.7	301.7	281.7	275.7	272.7	273.7	276.3
45°	342.0	337.1	312.9	286.9	264.7	261.5	261.3	260.6	263.8
47.5°	329.5	322.4	298.9	272.2	250.5	246.8	247.3	249.4	252.2
50°	315.1	306.7	283.4	256.5	234.8	232.4	234.1	235.6	239.3
52.5°	300.7	294.0	269.2	241.7	218.8	217.1	219.5	224.4	226.6
55°	289.5	277.4	255.2	224.2	201.8	202.0	206.8	209.6	214.3
57.5°	271.6	262.5	239.3	208.7	185.9	187.4	193.8	198.6	201.6
60°	258.9	247.5	223.8	192.1	169.1	171.4	178.8	185.9	191.0
62.5°	242.5	232.6	207.6	175.8	153.6	157.0	165.2	173.6	177.3
65°	229.2	218.0	191.7	159.4	137.4	141.5	151.6	161.1	167.1
67.5°	217.7	206.1	177.5	144.3	121.0	127.1	138.9	148.2	152.9
70°	204.2	190.6	161.3	127.5	104.0	111.1	126.2	137.0	142.4
72.5°	189.7	178.8	147.3	112.0	88.3	96.9	113.5	124.7	129.9
75°	178.5	166.3	135.5	96.5	72.4	82.7	100.6	113.3	118.5
77.5°	167.1	155.9	122.1	82.3	58.2	69.8	89.2	103.2	108.6
80°	157.0	144.1	110.9	70.6	43.3	57.1	78.4	92.2	98.4
82.5°	145.8	134.6	101.2	58.4	30.8	45.4	67.8	82.9	88.1
85°	135.9	124.3	92.2	48.7	19.0	35.1	58.2	73.7	79.9
87.5°	126.9	117.2	83.8	41.4	9.5	26.7	48.9	64.6	71.7
90°	118.7	107.7	76.7	34.7	1.7	19.4	41.4	56.9	62.2
92.5°	113.5	100.4	70.9	30.4	1.1	13.8	34.5	49.8	56.0
95°	105.8	94.1	64.8	27.1	1.1	9.3	27.8	42.6	48.0
97.5°	99.1	88.3	60.5	25.2	0.9	6.2	22.8	35.8	41.4
100°	93.9	83.8	56.6	23.5	1.1	4.5	18.1	30.4	35.3
102.5°	88.1	78.8	53.6	22.4	1.1	3.2	14.2	25.6	30.2
105°	82.9	74.7	50.8	21.3	1.1	2.8	11.4	21.1	25.2
107.5°	79.0	70.4	48.5	20.7	1.1	2.8	9.0	17.2	20.7
110°	75.2	67.0	46.1	20.0	1.1	2.6	7.1	14.2	17.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	72.6	63.8	43.9	19.4	1.3	2.6	5.8	11.8	14.2
115°	68.1	61.0	42.0	19.2	1.3	2.4	5.4	9.7	12.1
117.5°	64.8	58.4	40.1	18.5	1.3	2.4	5.2	8.0	9.7
120°	62.5	55.4	38.3	17.9	1.3	2.2	4.7	7.1	8.2
122.5°	59.4	52.6	36.8	17.4	1.3	2.2	4.5	6.7	7.3
125°	55.4	50.0	35.1	16.6	1.5	2.2	4.3	6.2	6.9
127.5°	52.8	47.6	33.8	15.5	1.5	1.9	4.1	5.8	6.5
130°	50.6	45.0	32.3	14.4	1.5	1.9	3.9	5.4	6.0
132.5°	47.4	42.4	30.2	13.6	1.5	1.7	3.4	5.0	5.6
135°	44.4	40.3	28.0	12.7	1.5	1.7	3.2	4.7	5.2
137.5°	42.4	38.1	26.1	11.8	1.5	1.5	3.0	4.3	4.7
140°	39.2	35.8	23.9	11.0	1.5	1.5	2.8	4.1	4.3
142.5°	36.8	33.4	22.0	10.1	1.5	1.5	2.6	3.7	4.1
145°	34.0	31.0	19.8	9.3	1.5	1.3	2.4	3.4	3.7
147.5°	31.4	28.2	18.1	8.6	1.5	1.3	2.2	3.0	3.2
150°	28.9	25.4	16.4	8.0	1.5	1.3	1.9	2.6	3.0
152.5°	26.1	22.0	14.6	7.3	1.5	1.3	1.7	2.4	2.6
155°	23.3	19.2	13.1	6.7	1.7	1.3	1.5	1.9	2.4
157.5°	20.9	16.6	11.6	6.0	1.7	1.1	1.5	1.7	1.9
160°	18.1	14.2	10.3	5.4	1.7	1.1	1.3	1.5	1.7
162.5°	15.9	11.8	9.0	5.0	1.7	1.1	1.3	1.3	1.5
165°	13.6	9.9	7.5	4.5	1.7	1.1	1.1	1.1	1.3
167.5°	11.0	7.8	6.2	4.1	1.7	1.1	1.1	0.9	1.1
170°	8.2	5.8	5.2	3.7	1.7	1.1	0.9	0.6	0.9
172.5°	3.7	4.5	4.1	3.2	1.9	1.1	0.9	0.6	0.4
175°	1.9	3.2	3.2	2.8	1.9	1.1	0.9	0.6	0.2
177.5°	1.5	1.9	2.4	2.4	1.9	1.3	0.9	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	17.90	19.37	18.40	19.88	20.42	16.77	18.25	17.28	18.75	19.30
	3H	19.99	21.33	20.50	21.84	22.43	18.61	19.96	19.13	20.47	21.05
	4H	20.93	22.21	21.47	22.74	23.33	19.33	20.61	19.87	21.14	21.73
	6H	21.85	23.04	22.40	23.58	24.19	19.93	21.12	20.48	21.66	22.27
	8H	22.28	23.42	22.85	23.98	24.60	20.17	21.30	20.73	21.87	22.49
	12H	22.70	23.80	23.28	24.35	25.00	20.37	21.46	20.94	22.02	22.67
4H	2H	18.38	19.65	18.92	20.18	20.78	17.34	18.62	17.88	19.15	19.74
	3H	20.69	21.78	21.25	22.35	22.97	19.37	20.46	19.92	21.03	21.64
	4H	21.81	22.80	22.38	23.38	24.03	20.20	21.19	20.77	21.77	22.42
	6H	22.92	23.79	23.51	24.40	25.06	20.92	21.80	21.51	22.41	23.07
	8H	23.44	24.27	24.04	24.87	25.55	21.22	22.04	21.81	22.65	23.32
	12H	23.98	24.73	24.59	25.36	26.04	21.48	22.23	22.10	22.86	23.54
8H	4H	22.06	22.88	22.65	23.49	24.16	20.54	21.37	21.14	21.97	22.65
	6H	23.34	24.04	23.97	24.69	25.37	21.40	22.10	22.03	22.74	23.42
	8H	24.01	24.64	24.65	25.29	25.99	21.77	22.41	22.41	23.06	23.75
	12H	24.72	25.28	25.36	25.92	26.68	22.13	22.70	22.77	23.34	24.10
12H	4H	22.07	22.82	22.69	23.45	24.13	20.61	21.36	21.23	21.99	22.67
	6H	23.39	24.02	24.03	24.68	25.37	21.51	22.14	22.15	22.80	23.49
	8H	24.13	24.70	24.78	25.34	26.10	21.95	22.51	22.59	23.16	23.91