

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: P892943

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892943
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-CC83-LOW-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 80CRI, 4000K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

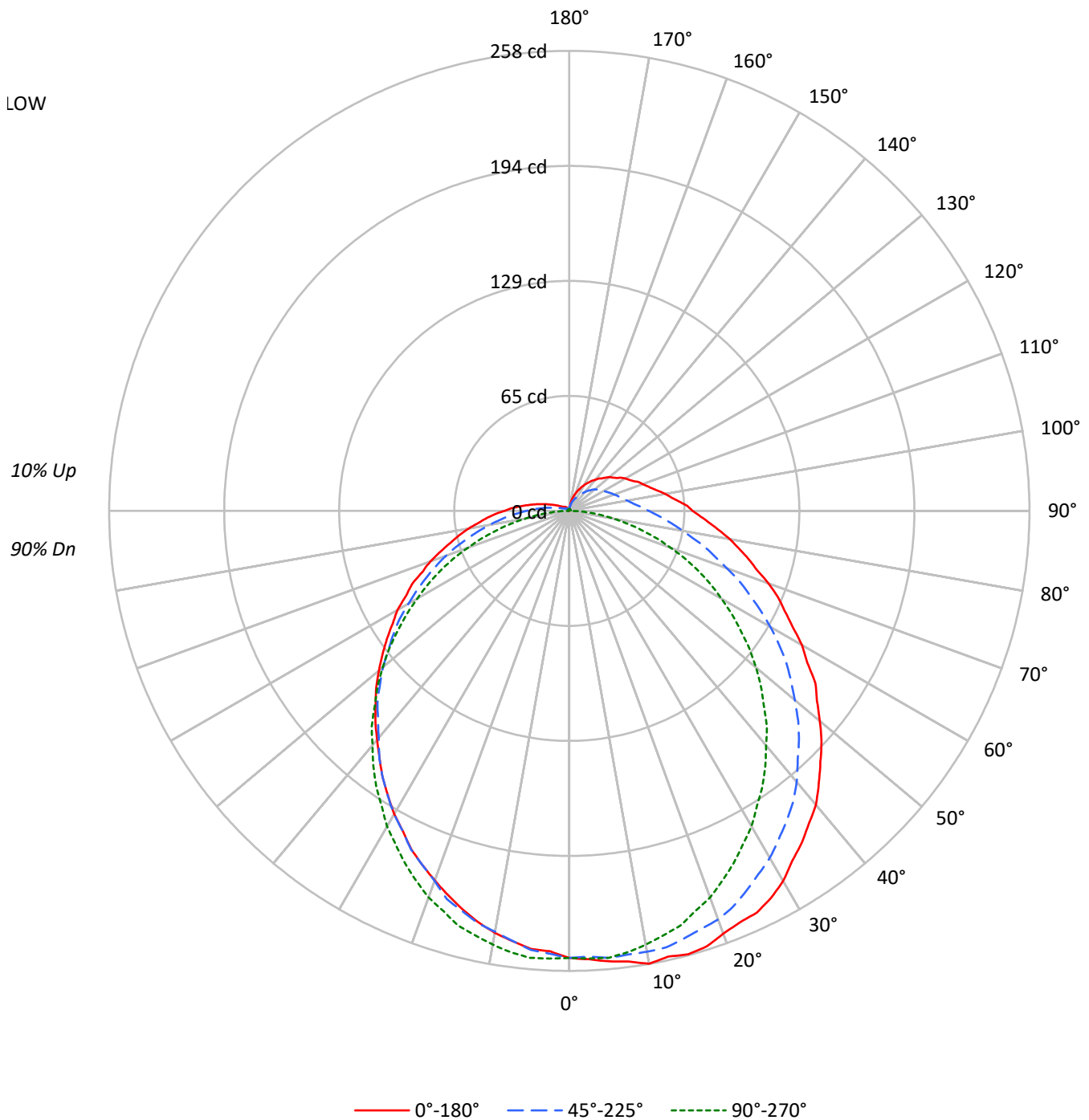
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 862.0 lumens
Efficiency: N/A
Efficacy: 124.9 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): 6.9
Input Voltage (V): 120
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	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°	5133	5133	5133	5133	5133
5°	5184	5006	4967	4919	5041
10°	5303	4893	4742	4673	4941
15°	5366	4780	4531	4470	4824
20°	5374	4673	4292	4230	4697
25°	5456	4515	4039	4029	4598
30°	5470	4364	3798	3813	4478
35°	5439	4200	3548	3606	4366
40°	5463	4028	3288	3374	4254
45°	5423	3828	3034	3198	4184
50°	5433	3625	2788	2995	4127
55°	5518	3447	2509	2791	4083
60°	5563	3224	2220	2575	4105
65°	5692	2988	1929	2364	4152
70°	6061	2760	1580	2160	4229
75°	6652	2592	1208	1922	4411
80°	7935	2426	810	1712	4975
85°	10792	2374	405	1494	6344

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 22401 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.8	2.8
10°-20°	68.2	7.9
20°-30°	102.8	11.9
30°-40°	123.4	14.3
40°-50°	128.5	14.9
50°-60°	119.1	13.8
60°-70°	98.1	11.4
70°-80°	70.8	8.2
80°-90°	44.9	5.2
90°-100°	27.7	3.2
100°-110°	18.5	2.1
110°-120°	13.2	1.5
120°-130°	9.6	1.1
130°-140°	6.6	0.8
140°-150°	4.0	0.5
150°-160°	2.0	0.2
160°-170°	0.7	0.1
170°-180°	0.1	0.0
0°-30°	194.8	22.6
0°-40°	318.2	36.9
0°-60°	565.8	65.6
0°-90°	779.6	90.4
90°-120°	59.3	6.9
90°-150°	79.6	9.2
90°-180°	82.0	9.5
0°-180°	862.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	251	251	251	251	251	
5°	254	252	252	247	247	24
15°	257	248	241	232	231	73
25°	249	235	218	210	210	114
35°	227	212	189	182	182	142
45°	199	182	154	152	154	154
55°	168	149	118	120	125	150
65°	133	112	80	88	97	133
75°	104	79	42	58	69	110
85°	79	54	11	34	46	67
90°	69	45	1	24	36	38
95°	62	38	1	16	28	49
105°	48	30	1	7	15	52
115°	40	24	1	3	7	40
125°	32	20	1	2	4	29
135°	26	16	1	2	3	20
145°	20	12	1	1	2	13
155°	14	8	1	1	1	6
165°	8	4	1	1	1	2
175°	1	2	1	0	0	0
180°	1	1	1	1	1	



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CATALOG NUMBER: 2MB-SC3-ASMF-UNV-CC83-LOW-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7
2.5°	251.7	252.5	250.1	251.6	251.3	251.6	248.6	251.1	247.2
5°	253.6	254.0	251.6	252.5	251.6	249.5	247.2	246.3	246.6
7.5°	254.9	256.9	251.0	251.2	249.7	247.5	243.2	243.9	243.4
10°	257.9	255.6	251.0	249.8	247.0	244.6	239.7	240.1	240.3
12.5°	256.0	255.5	250.8	246.7	243.8	241.8	236.8	235.6	236.2
15°	257.4	255.2	248.3	245.1	240.7	237.2	232.2	231.3	231.4
17.5°	256.1	254.4	245.8	241.3	235.2	233.0	228.3	226.8	226.0
20°	252.3	251.5	243.9	236.2	230.7	226.5	220.8	219.9	220.5
22.5°	249.8	247.7	240.2	232.4	224.4	220.8	215.0	214.9	215.0
25°	248.6	245.8	235.0	226.9	218.0	214.7	209.7	207.8	209.5
27.5°	244.8	242.3	229.7	220.8	210.9	206.5	202.3	202.0	202.2
30°	239.8	234.9	224.8	213.9	204.3	199.8	196.4	193.9	196.3
32.5°	232.7	229.9	218.4	206.5	195.9	192.8	189.4	189.2	189.2
35°	227.2	225.1	212.4	199.9	188.7	184.4	182.4	181.5	182.4
37.5°	220.8	217.7	206.0	192.1	180.5	176.9	174.9	174.1	174.8
40°	215.2	209.7	198.4	183.9	171.6	168.4	166.2	167.0	167.6
42.5°	207.1	204.0	189.5	175.6	164.0	160.5	158.7	159.3	160.8
45°	199.1	196.2	182.1	167.0	154.1	152.2	152.1	151.7	153.6
47.5°	191.8	187.7	174.0	158.5	145.8	143.7	143.9	145.2	146.8
50°	183.4	178.5	165.0	149.3	136.6	135.3	136.3	137.1	139.3
52.5°	175.0	171.1	156.7	140.7	127.4	126.4	127.7	130.6	131.9
55°	168.5	161.5	148.6	130.5	117.5	117.6	120.3	122.0	124.7
57.5°	158.1	152.8	139.3	121.5	108.2	109.1	112.8	115.6	117.3
60°	150.7	144.0	130.2	111.8	98.4	99.8	104.0	108.2	111.2
62.5°	141.2	135.4	120.8	102.3	89.4	91.4	96.2	101.0	103.2
65°	133.4	126.9	111.6	92.8	80.0	82.4	88.3	93.8	97.3
67.5°	126.7	120.0	103.3	84.0	70.5	74.0	80.9	86.2	89.0
70°	118.8	110.9	93.9	74.2	60.5	64.7	73.5	79.7	82.9
72.5°	110.4	104.0	85.7	65.2	51.4	56.4	66.1	72.6	75.6
75°	103.9	96.8	78.9	56.2	42.1	48.1	58.5	65.9	68.9
77.5°	97.3	90.8	71.1	47.9	33.8	40.6	51.9	60.0	63.2
80°	91.4	83.9	64.6	41.1	25.2	33.2	45.6	53.7	57.3
82.5°	84.9	78.3	58.9	34.0	17.9	26.5	39.5	48.3	51.3
85°	79.1	72.3	53.7	28.3	11.0	20.4	33.8	42.9	46.5
87.5°	73.8	68.2	48.8	24.1	5.5	15.5	28.5	37.6	41.7
90°	69.1	62.7	44.6	20.2	1.0	11.3	24.1	33.1	36.2
92.5°	66.1	58.4	41.2	17.7	0.6	8.0	20.1	29.0	32.6
95°	61.6	54.8	37.7	15.8	0.6	5.4	16.2	24.8	28.0
97.5°	57.7	51.4	35.2	14.7	0.5	3.6	13.3	20.8	24.1
100°	54.7	48.8	33.0	13.7	0.6	2.6	10.5	17.7	20.6
102.5°	51.3	45.9	31.2	13.0	0.6	1.9	8.3	14.9	17.6
105°	48.3	43.5	29.6	12.4	0.6	1.6	6.6	12.3	14.7
107.5°	46.0	41.0	28.2	12.0	0.6	1.6	5.3	10.0	12.0
110°	43.8	39.0	26.8	11.7	0.6	1.5	4.1	8.3	10.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	42.2	37.1	25.6	11.3	0.8	1.5	3.4	6.9	8.3
115°	39.6	35.5	24.4	11.2	0.8	1.4	3.1	5.6	7.0
117.5°	37.7	34.0	23.3	10.8	0.8	1.4	3.0	4.6	5.6
120°	36.4	32.2	22.3	10.4	0.8	1.3	2.8	4.1	4.8
122.5°	34.6	30.6	21.4	10.2	0.8	1.3	2.6	3.9	4.3
125°	32.2	29.1	20.4	9.7	0.9	1.3	2.5	3.6	4.0
127.5°	30.7	27.7	19.7	9.0	0.9	1.1	2.4	3.4	3.8
130°	29.5	26.2	18.8	8.4	0.9	1.1	2.3	3.1	3.5
132.5°	27.6	24.7	17.6	7.9	0.9	1.0	2.0	2.9	3.3
135°	25.8	23.4	16.3	7.4	0.9	1.0	1.9	2.8	3.0
137.5°	24.7	22.2	15.2	6.9	0.9	0.9	1.8	2.5	2.8
140°	22.8	20.8	13.9	6.4	0.9	0.9	1.6	2.4	2.5
142.5°	21.4	19.4	12.8	5.9	0.9	0.9	1.5	2.1	2.4
145°	19.8	18.1	11.5	5.4	0.9	0.8	1.4	2.0	2.1
147.5°	18.3	16.4	10.5	5.0	0.9	0.8	1.3	1.8	1.9
150°	16.8	14.8	9.5	4.6	0.9	0.8	1.1	1.5	1.8
152.5°	15.2	12.8	8.5	4.3	0.9	0.8	1.0	1.4	1.5
155°	13.5	11.2	7.6	3.9	1.0	0.8	0.9	1.1	1.4
157.5°	12.2	9.7	6.8	3.5	1.0	0.6	0.9	1.0	1.1
160°	10.5	8.3	6.0	3.1	1.0	0.6	0.8	0.9	1.0
162.5°	9.3	6.9	5.3	2.9	1.0	0.6	0.8	0.8	0.9
165°	7.9	5.8	4.4	2.6	1.0	0.6	0.6	0.6	0.8
167.5°	6.4	4.5	3.6	2.4	1.0	0.6	0.6	0.5	0.6
170°	4.8	3.4	3.0	2.1	1.0	0.6	0.5	0.4	0.5
172.5°	2.1	2.6	2.4	1.9	1.1	0.6	0.5	0.4	0.3
175°	1.1	1.9	1.9	1.6	1.1	0.6	0.5	0.4	0.1
177.5°	0.9	1.1	1.4	1.4	1.1	0.8	0.5	0.3	0.1
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



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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	16.02	17.49	16.52	18.00	18.54	14.89	16.37	15.40	16.87	17.41
	3H	18.11	19.45	18.62	19.96	20.55	16.73	18.08	17.25	18.59	19.17
	4H	19.05	20.33	19.59	20.85	21.45	17.45	18.73	17.99	19.26	19.85
	6H	19.97	21.16	20.52	21.70	22.31	18.05	19.24	18.60	19.78	20.39
	8H	20.40	21.54	20.97	22.10	22.72	18.29	19.42	18.85	19.99	20.61
	12H	20.82	21.92	21.40	22.47	23.12	18.49	19.58	19.06	20.14	20.79
4H	2H	16.50	17.77	17.04	18.30	18.90	15.46	16.74	16.00	17.27	17.86
	3H	18.81	19.90	19.37	20.47	21.09	17.49	18.58	18.04	19.15	19.77
	4H	19.93	20.92	20.50	21.50	22.15	18.32	19.31	18.89	19.89	20.54
	6H	21.04	21.91	21.63	22.52	23.18	19.04	19.92	19.63	20.52	21.19
	8H	21.57	22.39	22.16	22.99	23.67	19.33	20.16	19.93	20.76	21.44
	12H	22.10	22.85	22.71	23.48	24.16	19.60	20.35	20.22	20.98	21.66
8H	4H	20.18	21.00	20.77	21.61	22.28	18.66	19.49	19.26	20.09	20.77
	6H	21.46	22.16	22.09	22.81	23.49	19.52	20.22	20.14	20.86	21.54
	8H	22.13	22.76	22.77	23.42	24.11	19.89	20.52	20.53	21.18	21.87
	12H	22.84	23.40	23.48	24.04	24.80	20.25	20.81	20.89	21.46	22.21
12H	4H	20.19	20.94	20.81	21.57	22.25	18.73	19.48	19.35	20.11	20.79
	6H	21.51	22.15	22.15	22.80	23.49	19.63	20.26	20.27	20.91	21.61
	8H	22.25	22.82	22.90	23.46	24.22	20.07	20.63	20.71	21.28	22.03