

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: P892940

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892940
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-HI-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 80CRI, 4000K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

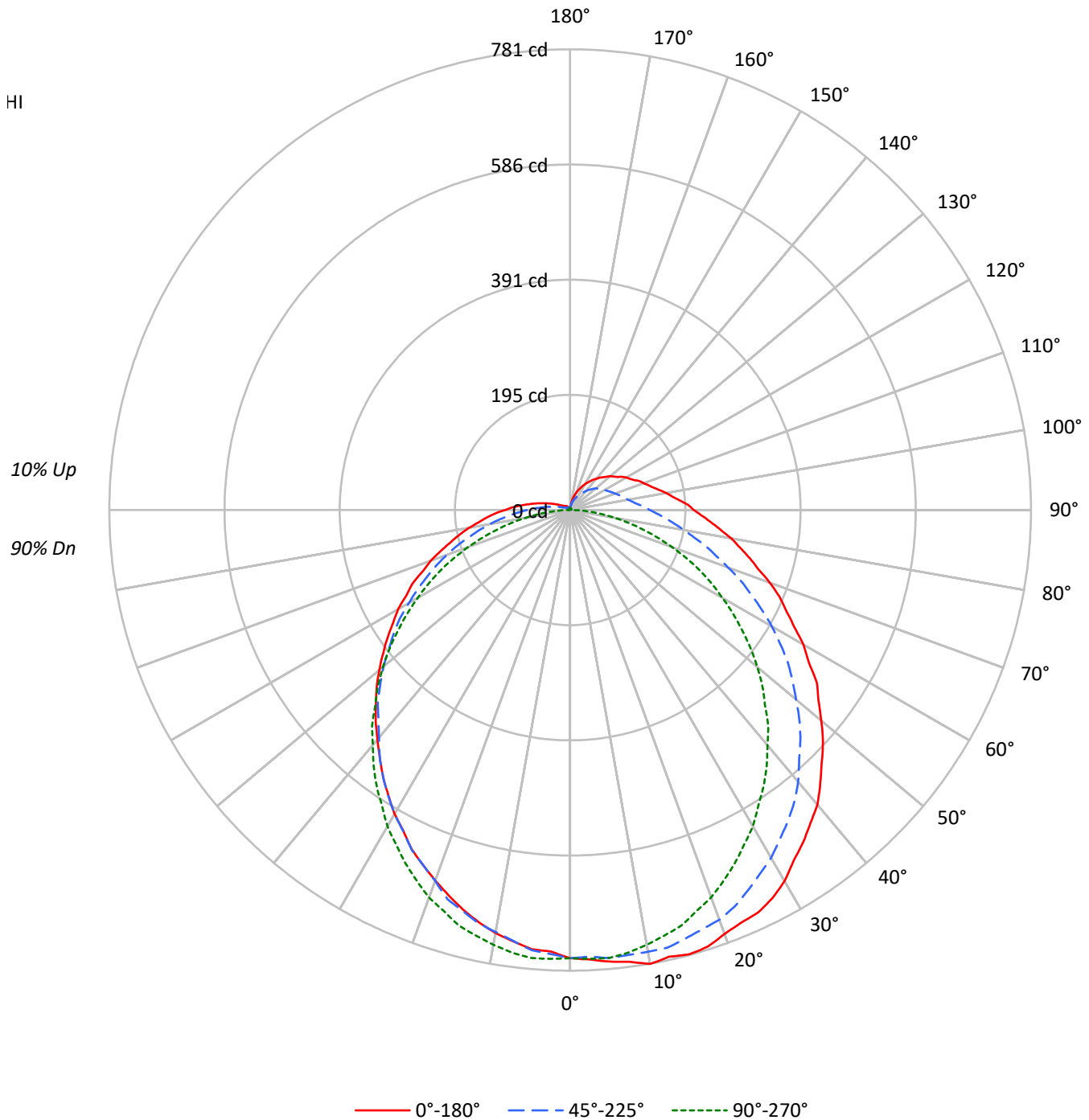
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2612.0 lumens
Efficiency: N/A
Efficacy: 124.4 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): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.39961257980444
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	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°	15556	15556	15556	15556	15556
5°	15709	15170	15051	14905	15274
10°	16068	14826	14367	14159	14974
15°	16258	14487	13729	13544	14617
20°	16289	14162	13002	12815	14233
25°	16533	13683	12239	12209	13930
30°	16578	13223	11513	11555	13571
35°	16477	12723	10749	10928	13231
40°	16556	12207	9965	10226	12893
45°	16430	11603	9192	9688	12674
50°	16463	10984	8450	9073	12502
55°	16717	10441	7599	8460	12378
60°	16855	9774	6728	7808	12436
65°	17248	9054	5845	7160	12580
70°	18371	8362	4791	6543	12810
75°	20161	7847	3663	5827	13374
80°	24040	7344	2456	5193	15072
85°	32704	7189	1230	4536	19224

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 67852 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.1	2.8
10°-20°	206.6	7.9
20°-30°	311.5	11.9
30°-40°	373.9	14.3
40°-50°	389.3	14.9
50°-60°	360.9	13.8
60°-70°	297.2	11.4
70°-80°	214.4	8.2
80°-90°	136.1	5.2
90°-100°	83.9	3.2
100°-110°	56.0	2.1
110°-120°	39.8	1.5
120°-130°	29.2	1.1
130°-140°	20.1	0.8
140°-150°	12.2	0.5
150°-160°	6.1	0.2
160°-170°	2.2	0.1
170°-180°	0.4	0.0
0°-30°	590.2	22.6
0°-40°	964.1	36.9
0°-60°	1714.4	65.6
0°-90°	2362.1	90.4
90°-120°	179.7	6.9
90°-150°	241.2	9.2
90°-180°	250.0	9.6
0°-180°	2612.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	760	760	760	760	760	
5°	768	762	762	749	747	74
15°	780	752	729	704	701	220
25°	753	712	661	636	635	346
35°	688	644	572	553	553	431
45°	603	552	467	461	465	467
55°	510	450	356	365	378	454
65°	404	338	242	267	295	402
75°	315	239	128	177	209	334
85°	240	163	33	103	141	203
90°	209	135	3	73	110	115
95°	186	114	2	49	85	148
105°	146	90	2	20	44	156
115°	120	74	2	10	21	120
125°	98	62	3	8	12	89
135°	78	49	3	6	9	61
145°	60	35	3	4	6	38
155°	41	23	3	3	4	19
165°	24	13	3	2	2	7
175°	3	6	3	2	0	1
180°	2	2	2	2	2	



TEST NUMBER: P892940

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	759.7	759.7	759.7	759.7	759.7	759.7	759.7	759.7	759.7
2.5°	762.8	765.0	757.8	762.4	761.6	762.4	753.3	760.9	749.1
5°	768.5	769.6	762.4	765.0	762.4	755.9	749.1	746.4	747.2
7.5°	772.3	778.3	760.5	761.2	756.7	749.8	736.9	739.2	737.7
10°	781.4	774.5	760.5	757.1	748.3	741.1	726.3	727.4	728.2
12.5°	775.7	774.2	760.1	747.6	738.8	732.7	717.6	713.8	715.7
15°	779.9	773.4	752.5	742.6	729.3	718.7	703.5	700.8	701.2
17.5°	776.1	770.7	744.9	731.2	712.6	706.2	691.7	687.2	684.9
20°	764.7	762.0	739.2	715.7	698.9	686.4	668.9	666.3	668.2
22.5°	757.1	750.6	727.8	704.3	679.9	668.9	651.5	651.1	651.5
25°	753.3	744.9	712.2	687.5	660.6	650.7	635.5	629.8	634.7
27.5°	741.9	734.3	695.9	668.9	638.9	625.6	613.1	612.0	612.7
30°	726.7	711.9	681.1	648.0	619.2	605.5	595.2	587.6	594.9
32.5°	705.0	696.7	661.7	625.6	593.7	584.2	574.0	573.2	573.2
35°	688.3	682.2	643.5	605.9	571.7	558.8	552.7	550.0	552.7
37.5°	668.9	659.8	624.1	581.9	547.0	536.0	529.9	527.6	529.5
40°	652.2	635.5	601.3	557.3	520.0	510.2	503.7	506.0	507.9
42.5°	627.5	618.0	574.3	532.2	496.9	486.2	480.9	482.8	487.4
45°	603.2	594.5	551.9	506.0	466.8	461.1	460.8	459.6	465.3
47.5°	581.2	568.7	527.2	480.1	441.8	435.3	436.1	439.9	444.8
50°	555.7	540.9	499.9	452.4	414.0	409.9	412.9	415.6	422.0
52.5°	530.3	518.5	474.8	426.2	385.9	382.9	387.1	395.8	399.6
55°	510.5	489.3	450.1	395.4	355.9	356.3	364.7	369.6	378.0
57.5°	479.0	463.0	422.0	368.1	327.8	330.5	341.9	350.2	355.5
60°	456.6	436.5	394.7	338.8	298.2	302.4	315.3	327.8	336.9
62.5°	427.7	410.2	366.2	310.0	270.8	276.9	291.4	306.2	312.6
65°	404.2	384.4	338.1	281.1	242.4	249.6	267.4	284.1	294.8
67.5°	384.0	363.5	313.0	254.5	213.5	224.1	245.0	261.3	269.7
70°	360.1	336.2	284.5	224.9	183.5	196.0	222.6	241.6	251.1
72.5°	334.7	315.3	259.8	197.5	155.7	170.9	200.2	219.9	229.1
75°	314.9	293.3	238.9	170.2	127.6	145.9	177.4	199.8	208.9
77.5°	294.8	275.0	215.4	145.1	102.6	123.1	157.3	182.0	191.4
80°	276.9	254.1	195.6	124.6	76.4	100.7	138.3	162.6	173.6
82.5°	257.2	237.4	178.5	102.9	54.3	80.2	119.7	146.2	155.4
85°	239.7	219.2	162.6	85.8	33.4	61.9	102.6	129.9	140.9
87.5°	223.7	206.6	147.8	72.9	16.7	47.1	86.2	114.0	126.5
90°	209.3	189.9	135.2	61.2	3.0	34.2	72.9	100.3	109.8
92.5°	200.2	177.0	125.0	53.6	1.9	24.3	60.8	87.7	98.8
95°	186.5	166.0	114.3	47.9	1.9	16.3	49.0	75.2	84.7
97.5°	174.7	155.7	106.7	44.4	1.5	11.0	40.3	63.1	72.9
100°	165.6	147.8	99.9	41.4	1.9	8.0	31.9	53.6	62.3
102.5°	155.4	139.0	94.6	39.5	1.9	5.7	25.1	45.2	53.2
105°	146.2	131.8	89.6	37.6	1.9	4.9	20.1	37.2	44.4
107.5°	139.4	124.2	85.5	36.5	1.9	4.9	16.0	30.4	36.5
110°	132.6	118.1	81.3	35.3	1.9	4.6	12.5	25.1	30.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	128.0	112.4	77.5	34.2	2.3	4.6	10.3	20.9	25.1
115°	120.0	107.5	74.1	33.8	2.3	4.2	9.5	17.1	21.3
117.5°	114.3	102.9	70.7	32.7	2.3	4.2	9.1	14.1	17.1
120°	110.2	97.6	67.6	31.5	2.3	3.8	8.4	12.5	14.4
122.5°	104.8	92.7	65.0	30.8	2.3	3.8	8.0	11.8	12.9
125°	97.6	88.1	61.9	29.2	2.7	3.8	7.6	11.0	12.2
127.5°	93.1	83.9	59.6	27.3	2.7	3.4	7.2	10.3	11.4
130°	89.3	79.4	57.0	25.5	2.7	3.4	6.8	9.5	10.6
132.5°	83.6	74.8	53.2	23.9	2.7	3.0	6.1	8.7	9.9
135°	78.3	71.0	49.4	22.4	2.7	3.0	5.7	8.4	9.1
137.5°	74.8	67.2	46.0	20.9	2.7	2.7	5.3	7.6	8.4
140°	69.1	63.1	42.2	19.4	2.7	2.7	4.9	7.2	7.6
142.5°	65.0	58.9	38.7	17.9	2.7	2.7	4.6	6.5	7.2
145°	60.0	54.7	34.9	16.3	2.7	2.3	4.2	6.1	6.5
147.5°	55.5	49.8	31.9	15.2	2.7	2.3	3.8	5.3	5.7
150°	50.9	44.8	28.9	14.1	2.7	2.3	3.4	4.6	5.3
152.5°	46.0	38.7	25.8	12.9	2.7	2.3	3.0	4.2	4.6
155°	41.0	33.8	23.2	11.8	3.0	2.3	2.7	3.4	4.2
157.5°	36.8	29.2	20.5	10.6	3.0	1.9	2.7	3.0	3.4
160°	31.9	25.1	18.2	9.5	3.0	1.9	2.3	2.7	3.0
162.5°	28.1	20.9	16.0	8.7	3.0	1.9	2.3	2.3	2.7
165°	23.9	17.5	13.3	8.0	3.0	1.9	1.9	1.9	2.3
167.5°	19.4	13.7	11.0	7.2	3.0	1.9	1.9	1.5	1.9
170°	14.4	10.3	9.1	6.5	3.0	1.9	1.5	1.1	1.5
172.5°	6.5	8.0	7.2	5.7	3.4	1.9	1.5	1.1	0.8
175°	3.4	5.7	5.7	4.9	3.4	1.9	1.5	1.1	0.4
177.5°	2.7	3.4	4.2	4.2	3.4	2.3	1.5	0.8	0.4
180°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3



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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	19.87	21.34	20.37	21.85	22.39	18.74	20.22	19.25	20.72	21.27
	3H	21.96	23.30	22.48	23.82	24.40	20.58	21.93	21.10	22.44	23.02
	4H	22.90	24.18	23.44	24.71	25.30	21.30	22.58	21.84	23.11	23.70
	6H	23.82	25.01	24.38	25.55	26.16	21.90	23.09	22.46	23.63	24.24
	8H	24.25	25.39	24.82	25.96	26.57	22.14	23.28	22.70	23.84	24.46
	12H	24.68	25.77	25.25	26.33	26.97	22.34	23.43	22.91	23.99	24.64
4H	2H	20.35	21.63	20.89	22.15	22.75	19.31	20.59	19.85	21.12	21.71
	3H	22.67	23.75	23.22	24.32	24.94	21.34	22.43	21.89	23.00	23.62
	4H	23.78	24.78	24.35	25.35	26.00	22.17	23.17	22.74	23.74	24.39
	6H	24.89	25.77	25.48	26.37	27.03	22.89	23.77	23.49	24.38	25.04
	8H	25.42	26.24	26.01	26.85	27.52	23.19	24.01	23.78	24.62	25.29
	12H	25.95	26.70	26.57	27.33	28.01	23.45	24.20	24.07	24.83	25.51
8H	4H	24.03	24.85	24.62	25.46	26.13	22.52	23.34	23.11	23.95	24.62
	6H	25.31	26.01	25.94	26.66	27.34	23.37	24.07	24.00	24.71	25.39
	8H	25.98	26.61	26.62	27.27	27.96	23.75	24.38	24.39	25.03	25.72
	12H	26.69	27.25	27.33	27.89	28.65	24.10	24.67	24.75	25.31	26.07
12H	4H	24.04	24.79	24.66	25.42	26.11	22.58	23.33	23.20	23.96	24.64
	6H	25.36	26.00	26.00	26.65	27.34	23.48	24.11	24.12	24.77	25.46
	8H	26.11	26.67	26.75	27.31	28.07	23.92	24.49	24.57	25.13	25.89