

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: P892992

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2410-248-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-ASYMR-UNV-CC93-MID-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 90CRI, 5000K CCT, MID setting
Light Source: -
Ballast/Driver: -

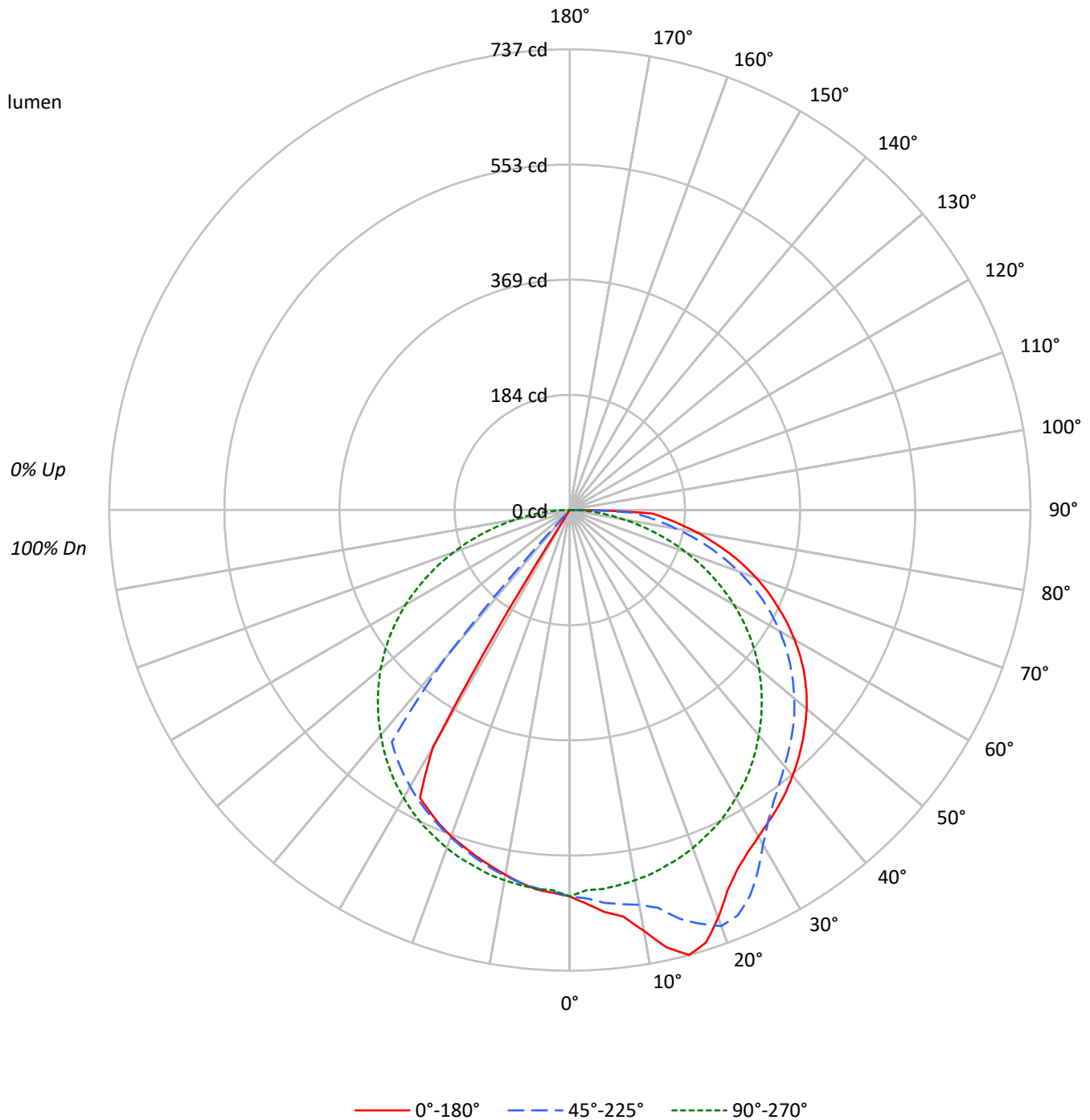
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1672.0 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.25
Luminous Opening: Rectangular (W 0.21' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 13.9
Input Voltage (V):
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				
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83	83	83	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69	69	69	69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59	59	59	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50	50	50	50
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44	44	44	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39	39	39	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	35	35	35	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31	31	31	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28	28	28	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26	26	26	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	16135	16135	16135	16135	16135
5°	16920	16529	15945	15919	15974
10°	18128	17001	15941	15755	15708
15°	19918	18290	15947	15604	15525
20°	19285	19676	15989	15478	15428
25°	18272	19638	16028	15426	15314
30°	18194	18640	16026	15408	13189
35°	18502	18129	16054	15410	182
40°	18902	18213	16032	10627	119
45°	19421	18583	16035	196	78
50°	20097	19049	16044	142	28
55°	20861	19591	16000	96	18
60°	21696	20255	15858	37	21
65°	22715	21053	15568	43	43
70°	24236	21939	15076	53	53
75°	26530	23352	14425	141	71
80°	31137	26131	13351	210	105
85°	46341	36695	12521	330	210

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 79426 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.2	3.5
10°-20°	176.8	10.6
20°-30°	271.8	16.3
30°-40°	291.3	17.4
40°-50°	264.5	15.8
50°-60°	241.3	14.4
60°-70°	179.5	10.7
70°-80°	126.3	7.6
80°-90°	61.2	3.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	507.8	30.4
0°-40°	799.1	47.8
0°-60°	1304.9	78.0
0°-90°	1672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1672.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	618	618	618	618	618	
5°	646	631	608	607	610	63
15°	737	677	590	577	574	203
25°	634	682	556	536	532	295
35°	580	569	504	484	6	364
45°	526	503	434	5	2	406
55°	458	430	352	2	0	409
65°	368	341	252	1	1	364
75°	263	232	143	1	1	277
85°	155	122	42	1	1	155
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0
2.5°	630.7	623.6	621.9	626.8	608.8	620.8	610.9	613.0	613.0
5°	645.6	635.7	630.7	629.3	608.4	616.6	607.4	607.4	609.5
7.5°	655.8	644.9	636.0	632.5	605.2	612.3	601.7	601.7	601.7
10°	683.8	663.3	641.3	635.0	601.3	606.6	594.3	595.0	592.5
12.5°	716.7	698.3	651.6	633.9	597.1	599.6	586.5	586.1	583.3
15°	736.9	723.1	676.7	632.5	590.0	592.1	577.3	576.2	574.4
17.5°	725.6	723.4	694.1	631.4	583.6	581.9	567.0	565.9	564.5
20°	694.1	699.4	708.2	629.3	575.5	572.0	557.1	556.4	555.3
22.5°	659.0	664.3	701.9	632.8	565.6	561.3	546.5	545.8	544.4
25°	634.3	634.3	681.7	641.3	556.4	548.6	535.5	534.4	531.6
27.5°	616.9	613.7	651.6	650.9	544.7	535.9	523.8	522.8	519.2
30°	603.5	598.2	618.3	655.5	531.6	522.1	511.1	510.0	437.5
32.5°	591.4	585.8	590.4	659.4	518.5	507.2	497.6	355.0	15.6
35°	580.5	574.1	568.8	656.6	503.7	492.3	483.5	10.3	5.7
37.5°	568.1	563.1	551.1	641.7	487.7	476.4	467.9	5.7	5.0
40°	554.6	550.0	534.4	619.7	470.4	460.8	311.8	5.0	3.5
42.5°	540.8	537.3	518.9	587.9	453.0	443.5	9.9	3.9	2.8
45°	526.0	522.8	503.3	549.3	434.3	425.4	5.3	2.8	2.1
47.5°	510.7	506.1	487.0	507.9	415.2	406.3	4.6	2.1	1.4
50°	494.8	489.8	469.0	471.4	395.0	386.1	3.5	1.4	0.7
52.5°	477.1	471.1	449.9	438.5	373.8	365.6	2.8	0.7	0.4
55°	458.3	451.6	430.4	409.9	351.5	342.3	2.1	0.7	0.4
57.5°	437.5	430.0	409.9	382.6	327.7	231.5	1.4	0.7	0.4
60°	415.5	408.1	387.9	357.1	303.7	15.9	0.7	0.7	0.4
62.5°	392.2	384.4	364.9	331.3	277.8	13.1	0.7	0.7	0.7
65°	367.7	358.5	340.8	304.7	252.0	11.0	0.7	0.7	0.7
67.5°	343.3	331.6	315.0	277.5	225.5	9.2	0.7	0.7	0.7
70°	317.5	304.7	287.4	249.9	197.5	7.4	0.7	0.7	0.7
72.5°	290.9	278.5	259.8	221.9	171.3	5.7	0.7	0.7	0.7
75°	263.0	251.6	231.5	194.0	143.0	4.2	1.4	0.7	0.7
77.5°	234.0	225.1	202.5	165.3	115.4	2.8	1.4	0.7	0.7
80°	207.1	197.1	173.8	136.3	88.8	2.1	1.4	1.1	0.7
82.5°	179.4	170.6	147.2	109.7	63.7	1.8	1.4	1.1	0.7
85°	154.7	146.2	122.5	85.7	41.8	1.4	1.1	1.1	0.7
87.5°	132.7	124.9	101.6	62.6	23.7	1.1	1.1	1.1	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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	24.19	25.81	24.56	26.12	26.44	19.63	21.24	19.99	21.55	21.87
	3H	26.64	28.10	27.02	28.43	28.79	20.27	21.73	20.65	22.06	22.42
	4H	27.76	29.15	28.16	29.49	29.87	20.41	21.80	20.81	22.14	22.52
	6H	28.86	30.14	29.27	30.51	30.90	20.45	21.74	20.86	22.10	22.49
	8H	29.39	30.61	29.81	31.00	31.40	20.44	21.67	20.87	22.06	22.46
	12H	29.96	31.13	30.38	31.51	31.94	20.42	21.60	20.85	21.98	22.41
4H	2H	24.85	26.23	25.25	26.58	26.96	20.75	22.14	21.15	22.48	22.86
	3H	27.54	28.71	27.95	29.10	29.50	22.10	23.26	22.50	23.66	24.06
	4H	28.84	29.90	29.27	30.31	30.75	22.63	23.69	23.06	24.11	24.54
	6H	30.12	31.05	30.57	31.49	31.94	22.91	23.84	23.36	24.28	24.73
	8H	30.74	31.62	31.20	32.06	32.53	22.94	23.82	23.40	24.26	24.73
	12H	31.43	32.22	31.91	32.70	33.16	22.95	23.75	23.43	24.22	24.69
8H	4H	29.20	30.08	29.66	30.52	30.98	23.58	24.45	24.04	24.90	25.36
	6H	30.68	31.42	31.17	31.90	32.38	24.17	24.91	24.66	25.39	25.87
	8H	31.46	32.13	31.97	32.63	33.12	24.35	25.01	24.85	25.52	26.00
	12H	32.36	32.95	32.86	33.44	34.00	24.45	25.04	24.95	25.53	26.09
12H	4H	29.24	30.03	29.72	30.51	30.97	23.80	24.59	24.27	25.06	25.53
	6H	30.77	31.44	31.28	31.94	32.42	24.52	25.18	25.03	25.69	26.17
	8H	31.65	32.24	32.15	32.73	33.29	24.83	25.42	25.34	25.91	26.47