

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: P892989

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892989
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-LOW-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 90CRI, 5000K CCT, LOW setting
Light Source: -
Ballast/Driver: -

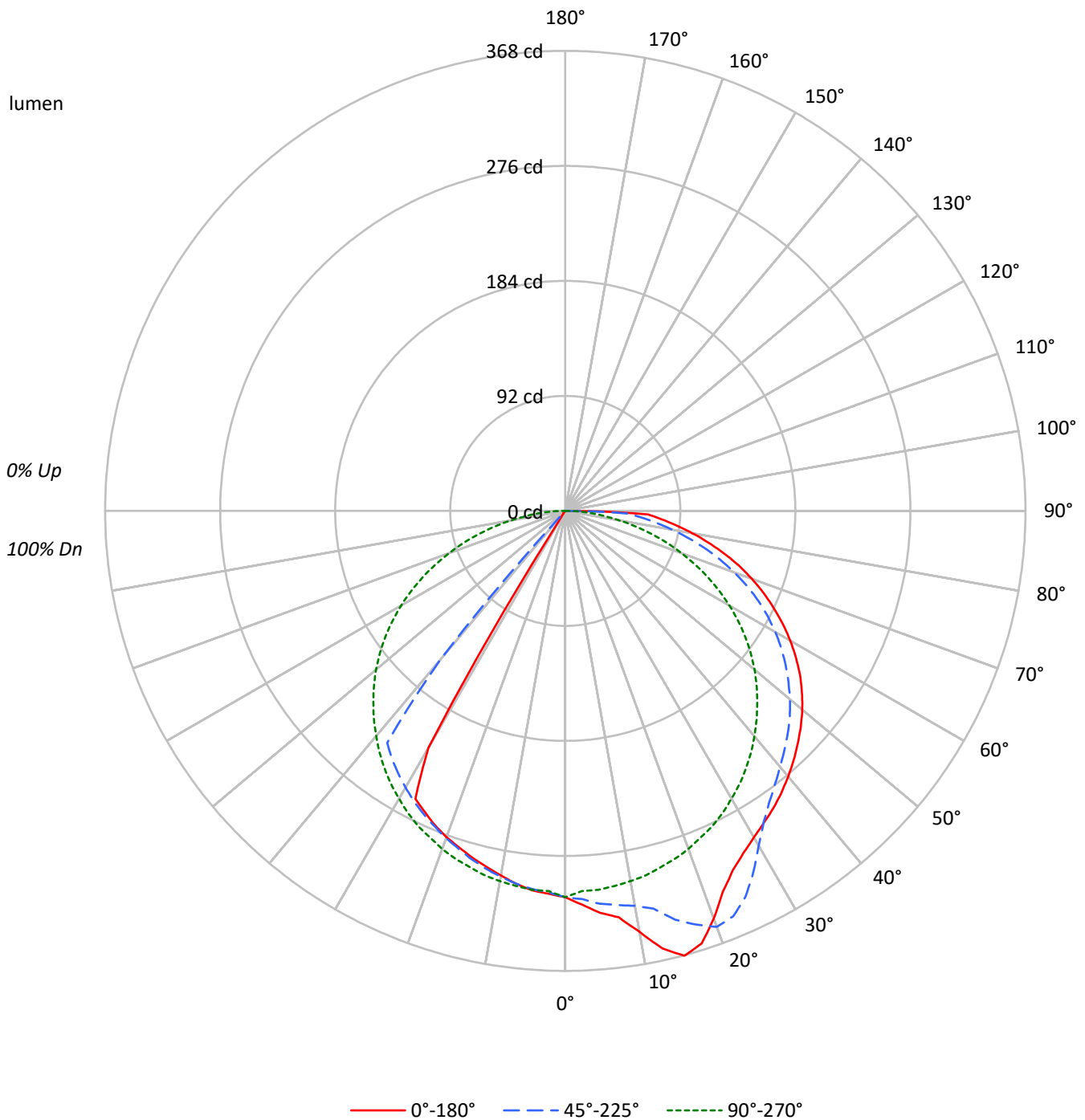
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 836.0 lumens
Efficiency: N/A
Efficacy: 121.2 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): 6.9
Input Voltage (V):
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8067	8067	8067	8067	8067
5°	8460	8266	7972	7959	7985
10°	9064	8502	7972	7876	7852
15°	9957	9147	7974	7801	7763
20°	9641	9838	7996	7738	7715
25°	9135	9817	8014	7714	7657
30°	9095	9321	8013	7703	6593
35°	9249	9064	8025	7703	89
40°	9451	9107	8016	5313	61
45°	9711	9290	8016	100	41
50°	10049	9525	8022	73	16
55°	10433	9795	7997	50	9
60°	10850	10130	7926	21	10
65°	11361	10527	7784	25	25
70°	12114	10969	7534	31	31
75°	13265	11671	7212	71	40
80°	15561	13065	6676	105	60
85°	23156	18333	6261	150	120

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 39743 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.6	3.5
10°-20°	88.4	10.6
20°-30°	135.9	16.3
30°-40°	145.6	17.4
40°-50°	132.3	15.8
50°-60°	120.7	14.4
60°-70°	89.8	10.7
70°-80°	63.2	7.6
80°-90°	30.6	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°	253.9	30.4
0°-40°	399.5	47.8
0°-60°	652.5	78.0
0°-90°	836.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	836.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	309	309	309	309	309	
5°	323	315	304	304	305	31
15°	368	338	295	289	287	102
25°	317	341	278	268	266	147
35°	290	284	252	242	3	182
45°	263	252	217	3	1	203
55°	229	215	176	1	0	205
65°	184	170	126	0	0	182
75°	132	116	72	1	0	139
85°	77	61	21	0	0	78
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°	309.0	309.0	309.0	309.0	309.0	309.0	309.0	309.0	309.0
2.5°	315.4	311.8	310.9	313.4	304.4	310.4	305.4	306.5	306.5
5°	322.8	317.8	315.4	314.7	304.2	308.3	303.7	303.7	304.7
7.5°	327.9	322.4	318.0	316.2	302.6	306.2	300.8	300.8	300.8
10°	341.9	331.6	320.7	317.5	300.7	303.3	297.1	297.5	296.2
12.5°	358.4	349.2	325.8	317.0	298.5	299.8	293.2	293.1	291.6
15°	368.4	361.5	338.4	316.2	295.0	296.1	288.6	288.1	287.2
17.5°	362.8	361.7	347.0	315.7	291.8	290.9	283.5	283.0	282.3
20°	347.0	349.7	354.1	314.7	287.8	286.0	278.5	278.2	277.7
22.5°	329.5	332.2	350.9	316.4	282.8	280.7	273.2	272.9	272.2
25°	317.1	317.1	340.8	320.7	278.2	274.3	267.8	267.2	265.8
27.5°	308.5	306.9	325.8	325.4	272.4	267.9	261.9	261.4	259.6
30°	301.7	299.1	309.2	327.7	265.8	261.0	255.5	255.0	218.7
32.5°	295.7	292.9	295.2	329.7	259.3	253.6	248.8	177.5	7.8
35°	290.2	287.0	284.4	328.3	251.8	246.2	241.7	5.1	2.8
37.5°	284.0	281.6	275.5	320.8	243.9	238.2	234.0	2.8	2.5
40°	277.3	275.0	267.2	309.9	235.2	230.4	155.9	2.5	1.8
42.5°	270.4	268.6	259.4	293.9	226.5	221.7	5.0	1.9	1.4
45°	263.0	261.4	251.6	274.7	217.1	212.7	2.7	1.4	1.1
47.5°	255.4	253.1	243.5	254.0	207.6	203.2	2.3	1.1	0.7
50°	247.4	244.9	234.5	235.7	197.5	193.1	1.8	0.7	0.4
52.5°	238.6	235.5	224.9	219.3	186.9	182.8	1.4	0.4	0.2
55°	229.2	225.8	215.2	204.9	175.7	171.1	1.1	0.4	0.2
57.5°	218.7	215.0	204.9	191.3	163.9	115.7	0.7	0.4	0.2
60°	207.8	204.0	194.0	178.6	151.8	8.0	0.4	0.4	0.2
62.5°	196.1	192.2	182.5	165.6	138.9	6.5	0.4	0.4	0.4
65°	183.9	179.3	170.4	152.4	126.0	5.5	0.4	0.4	0.4
67.5°	171.7	165.8	157.5	138.7	112.7	4.6	0.4	0.4	0.4
70°	158.7	152.4	143.7	124.9	98.7	3.7	0.4	0.4	0.4
72.5°	145.5	139.3	129.9	111.0	85.7	2.8	0.4	0.4	0.4
75°	131.5	125.8	115.7	97.0	71.5	2.1	0.7	0.4	0.4
77.5°	117.0	112.6	101.2	82.6	57.7	1.4	0.7	0.4	0.4
80°	103.5	98.6	86.9	68.1	44.4	1.1	0.7	0.5	0.4
82.5°	89.7	85.3	73.6	54.9	31.9	0.9	0.7	0.5	0.4
85°	77.3	73.1	61.2	42.8	20.9	0.7	0.5	0.5	0.4
87.5°	66.4	62.5	50.8	31.3	11.9	0.5	0.5	0.5	0.4
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	21.78	23.40	22.15	23.71	24.03	17.22	18.83	17.58	19.15	19.46
	3H	24.23	25.70	24.61	26.02	26.38	17.86	19.32	18.24	19.65	20.01
	4H	25.36	26.74	25.75	27.09	27.46	18.00	19.39	18.40	19.73	20.11
	6H	26.45	27.73	26.86	28.10	28.49	18.05	19.33	18.46	19.69	20.08
	8H	26.98	28.21	27.40	28.60	28.99	18.03	19.26	18.46	19.65	20.05
	12H	27.55	28.73	27.98	29.11	29.54	18.02	19.19	18.44	19.58	20.00
4H	2H	22.44	23.82	22.84	24.17	24.55	18.35	19.73	18.74	20.08	20.45
	3H	25.13	26.30	25.54	26.70	27.10	19.69	20.86	20.10	21.25	21.65
	4H	26.43	27.49	26.86	27.90	28.34	20.22	21.29	20.65	21.70	22.13
	6H	27.71	28.64	28.16	29.08	29.54	20.50	21.43	20.95	21.87	22.33
	8H	28.34	29.21	28.79	29.65	30.12	20.54	21.41	20.99	21.85	22.32
	12H	29.02	29.81	29.50	30.29	30.76	20.55	21.34	21.03	21.81	22.28
8H	4H	26.79	27.67	27.25	28.11	28.57	21.17	22.05	21.63	22.49	22.95
	6H	28.27	29.01	28.77	29.50	29.97	21.76	22.50	22.25	22.98	23.46
	8H	29.06	29.72	29.56	30.23	30.71	21.94	22.60	22.45	23.11	23.59
	12H	29.95	30.54	30.45	31.03	31.59	22.04	22.63	22.55	23.12	23.68
12H	4H	26.83	27.62	27.31	28.10	28.57	21.39	22.18	21.87	22.65	23.12
	6H	28.36	29.03	28.87	29.53	30.02	22.11	22.78	22.62	23.28	23.77
	8H	29.24	29.83	29.75	30.32	30.88	22.42	23.01	22.93	23.50	24.06