

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: P894185

Luminaire Tested: 4MB-SC3-ASYMR-UNV-CC93-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894185
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: 4MB-SC3-ASYMR-UNV-CC93-LOW-5000K
Description: Selectable 4FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 90CRI, 5000K CCT, LOW setting
Light Source: -
Ballast/Driver: -

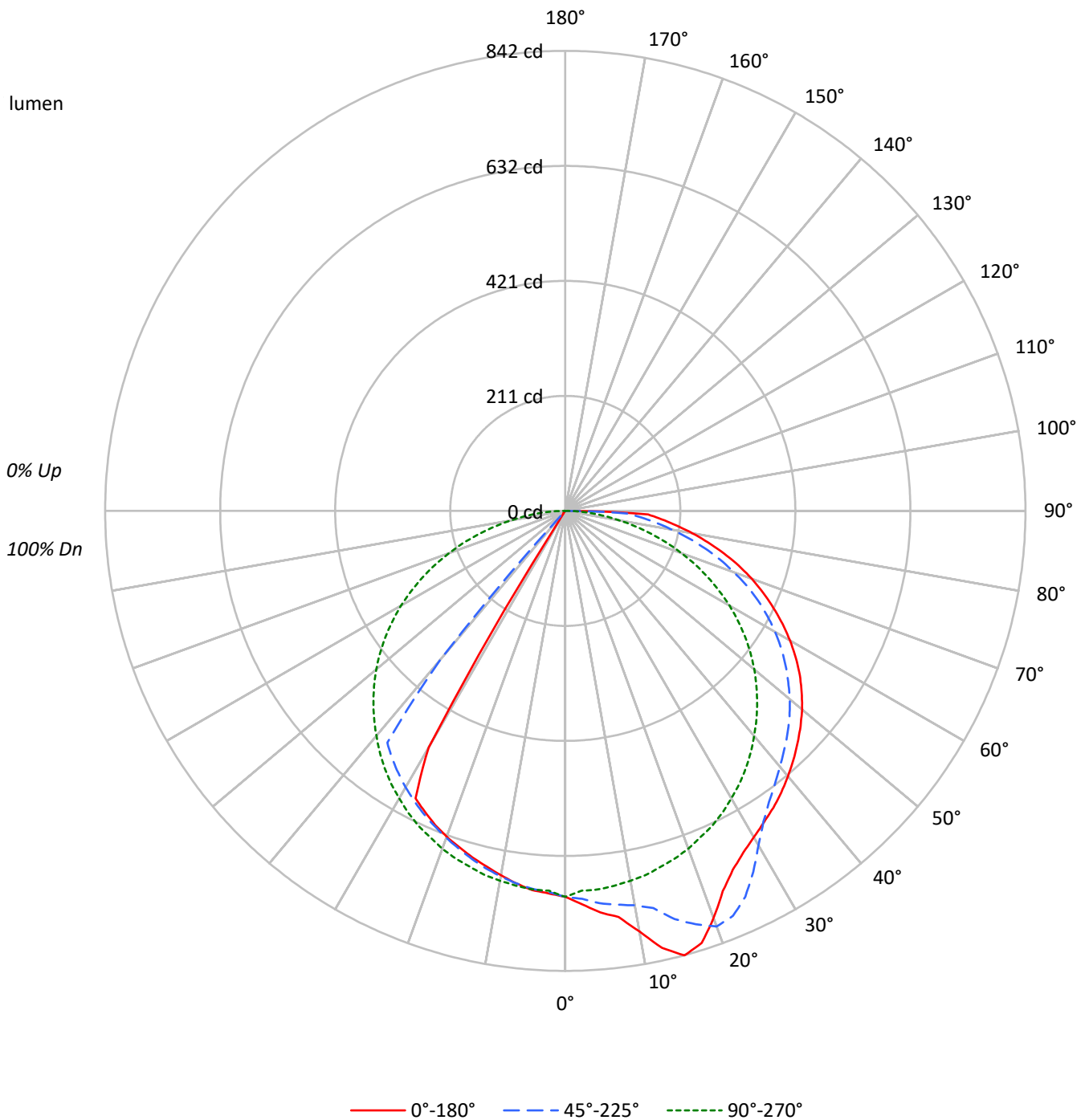
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1911.0 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.25
Luminous Opening: Rectangular (W 0.21' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16.7
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

TEST NUMBER: P894185
CATALOG NUMBER: 4MB-SC3-ASYMR-UNV-CC93-LOW-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P894185

CATALOG NUMBER: 4MB-SC3-ASYMR-UNV-CC93-LOW-5000K

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°	9171	9171	9171	9171	9171
5°	9618	9397	9064	9049	9080
10°	10306	9665	9062	8956	8929
15°	11322	10398	9066	8870	8827
20°	10962	11186	9090	8798	8771
25°	10386	11163	9111	8770	8705
30°	10341	10596	9110	8758	7497
35°	10516	10305	9124	8760	103
40°	10745	10354	9113	6041	68
45°	11038	10563	9116	112	44
50°	11424	10828	9121	81	16
55°	11860	11136	9094	54	9
60°	12333	11515	9014	21	10
65°	12914	11971	8849	25	25
70°	13778	12472	8569	30	30
75°	15081	13275	8198	80	40
80°	17700	14851	7590	120	60
85°	26341	20858	7107	179	119

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 45160 cd/sqm



TEST NUMBER: P894185
 CATALOG NUMBER: 4MB-SC3-ASYMR-UNV-CC93-LOW-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.7	3.5
10°-20°	202.1	10.6
20°-30°	310.6	16.3
30°-40°	332.9	17.4
40°-50°	302.3	15.8
50°-60°	275.8	14.4
60°-70°	205.2	10.7
70°-80°	144.4	7.6
80°-90°	70.0	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°	580.4	30.4
0°-40°	913.3	47.8
0°-60°	1491.4	78.0
0°-90°	1911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1911.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	706	706	706	706	706	
5°	738	721	695	694	697	71
15°	842	774	674	660	657	233
25°	725	779	636	612	608	337
35°	663	650	576	553	6	416
45°	601	575	496	6	2	464
55°	524	492	402	2	0	468
65°	420	390	288	1	1	416
75°	301	265	163	2	1	317
85°	177	140	48	1	1	178
90°	0	0	0	0	0	



TEST NUMBER: P894185
 CATALOG NUMBER: 4MB-SC3-ASYMR-UNV-CC93-LOW-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	706.3	706.3	706.3	706.3	706.3	706.3	706.3	706.3	706.3
2.5°	720.9	712.8	710.8	716.4	695.8	709.5	698.2	700.6	700.6
5°	737.9	726.5	720.9	719.3	695.4	704.7	694.2	694.2	696.6
7.5°	749.6	737.1	726.9	722.9	691.7	699.8	687.7	687.7	687.7
10°	781.6	758.1	733.0	725.7	687.3	693.4	679.2	680.0	677.2
12.5°	819.2	798.1	744.7	724.5	682.4	685.3	670.3	669.9	666.7
15°	842.2	826.5	773.5	722.9	674.4	676.8	659.8	658.6	656.6
17.5°	829.3	826.9	793.3	721.7	667.1	665.0	648.1	646.8	645.2
20°	793.3	799.4	809.5	719.3	657.8	653.7	636.7	635.9	634.7
22.5°	753.2	759.3	802.2	723.3	646.4	641.6	624.6	623.8	622.2
25°	724.9	724.9	779.1	733.0	635.9	627.0	612.1	610.8	607.6
27.5°	705.1	701.5	744.7	743.9	622.6	612.5	598.7	597.5	593.4
30°	689.7	683.7	706.7	749.2	607.6	596.7	584.1	582.9	500.0
32.5°	676.0	669.5	674.8	753.6	592.6	579.7	568.8	405.7	17.8
35°	663.4	656.1	650.1	750.4	575.6	562.7	552.6	11.7	6.5
37.5°	649.3	643.6	629.9	733.4	557.4	544.5	534.8	6.5	5.7
40°	633.9	628.6	610.8	708.3	537.6	526.7	356.4	5.7	4.0
42.5°	618.1	614.1	593.0	671.9	517.8	506.9	11.3	4.4	3.2
45°	601.1	597.5	575.2	627.8	496.4	486.2	6.1	3.2	2.4
47.5°	583.7	578.5	556.6	580.5	474.5	464.4	5.3	2.4	1.6
50°	565.5	559.9	536.0	538.8	451.5	441.3	4.0	1.6	0.8
52.5°	545.3	538.4	514.2	501.2	427.2	417.9	3.2	0.8	0.4
55°	523.9	516.2	491.9	468.4	401.7	391.2	2.4	0.8	0.4
57.5°	500.0	491.5	468.4	437.3	374.6	264.6	1.6	0.8	0.4
60°	474.9	466.4	443.4	408.2	347.1	18.2	0.8	0.8	0.4
62.5°	448.2	439.3	417.1	378.6	317.6	15.0	0.8	0.8	0.8
65°	420.3	409.8	389.6	348.3	288.0	12.5	0.8	0.8	0.8
67.5°	392.4	379.0	360.0	317.2	257.7	10.5	0.8	0.8	0.8
70°	362.9	348.3	328.5	285.6	225.7	8.5	0.8	0.8	0.8
72.5°	332.5	318.4	296.9	253.6	195.8	6.5	0.8	0.8	0.8
75°	300.6	287.6	264.6	221.7	163.4	4.9	1.6	0.8	0.8
77.5°	267.4	257.3	231.4	188.9	131.9	3.2	1.6	0.8	0.8
80°	236.7	225.3	198.6	155.7	101.5	2.4	1.6	1.2	0.8
82.5°	205.1	195.0	168.3	125.4	72.8	2.0	1.6	1.2	0.8
85°	176.8	167.1	140.0	97.9	47.7	1.6	1.2	1.2	0.8
87.5°	151.7	142.8	116.1	71.6	27.1	1.2	1.2	1.2	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P894185
 CATALOG NUMBER: 4MB-SC3-ASYMR-UNV-CC93-LOW-5000K

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	22.23	23.85	22.60	24.16	24.47	17.66	19.28	18.03	19.59	19.91
	3H	24.68	26.14	25.05	26.47	26.83	18.31	19.77	18.68	20.10	20.46
	4H	25.80	27.18	26.20	27.53	27.91	18.45	19.83	18.85	20.18	20.56
	6H	26.90	28.18	27.31	28.54	28.93	18.49	19.78	18.90	20.14	20.53
	8H	27.42	28.65	27.85	29.04	29.44	18.48	19.71	18.90	20.10	20.50
	12H	27.99	29.17	28.42	29.55	29.98	18.46	19.64	18.89	20.02	20.45
4H	2H	22.89	24.27	23.29	24.62	24.99	18.79	20.17	19.19	20.52	20.90
	3H	25.58	26.75	25.99	27.14	27.54	20.13	21.30	20.54	21.70	22.10
	4H	26.87	27.94	27.30	28.35	28.78	20.67	21.73	21.10	22.14	22.58
	6H	28.15	29.09	28.61	29.53	29.98	20.94	21.88	21.40	22.32	22.77
	8H	28.78	29.66	29.24	30.10	30.56	20.98	21.86	21.44	22.30	22.76
	12H	29.47	30.26	29.95	30.73	31.20	20.99	21.78	21.47	22.26	22.73
8H	4H	27.24	28.11	27.70	28.55	29.02	21.62	22.49	22.07	22.93	23.40
	6H	28.72	29.46	29.21	29.94	30.42	22.21	22.94	22.70	23.43	23.90
	8H	29.50	30.17	30.01	30.67	31.16	22.38	23.05	22.89	23.55	24.04
	12H	30.39	30.98	30.90	31.47	32.03	22.49	23.08	22.99	23.57	24.13
12H	4H	27.28	28.07	27.76	28.54	29.01	21.83	22.62	22.31	23.10	23.57
	6H	28.81	29.47	29.31	29.98	30.46	22.56	23.22	23.06	23.73	24.21
	8H	29.69	30.28	30.19	30.77	31.33	22.87	23.46	23.37	23.95	24.51