

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: P892978

Luminaire Tested: 2MB-SC3-ASYMR-UNV-CC83-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892978
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-CC83-LOW-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 80CRI, 3500K CCT, LOW setting
Light Source: -
Ballast/Driver: -

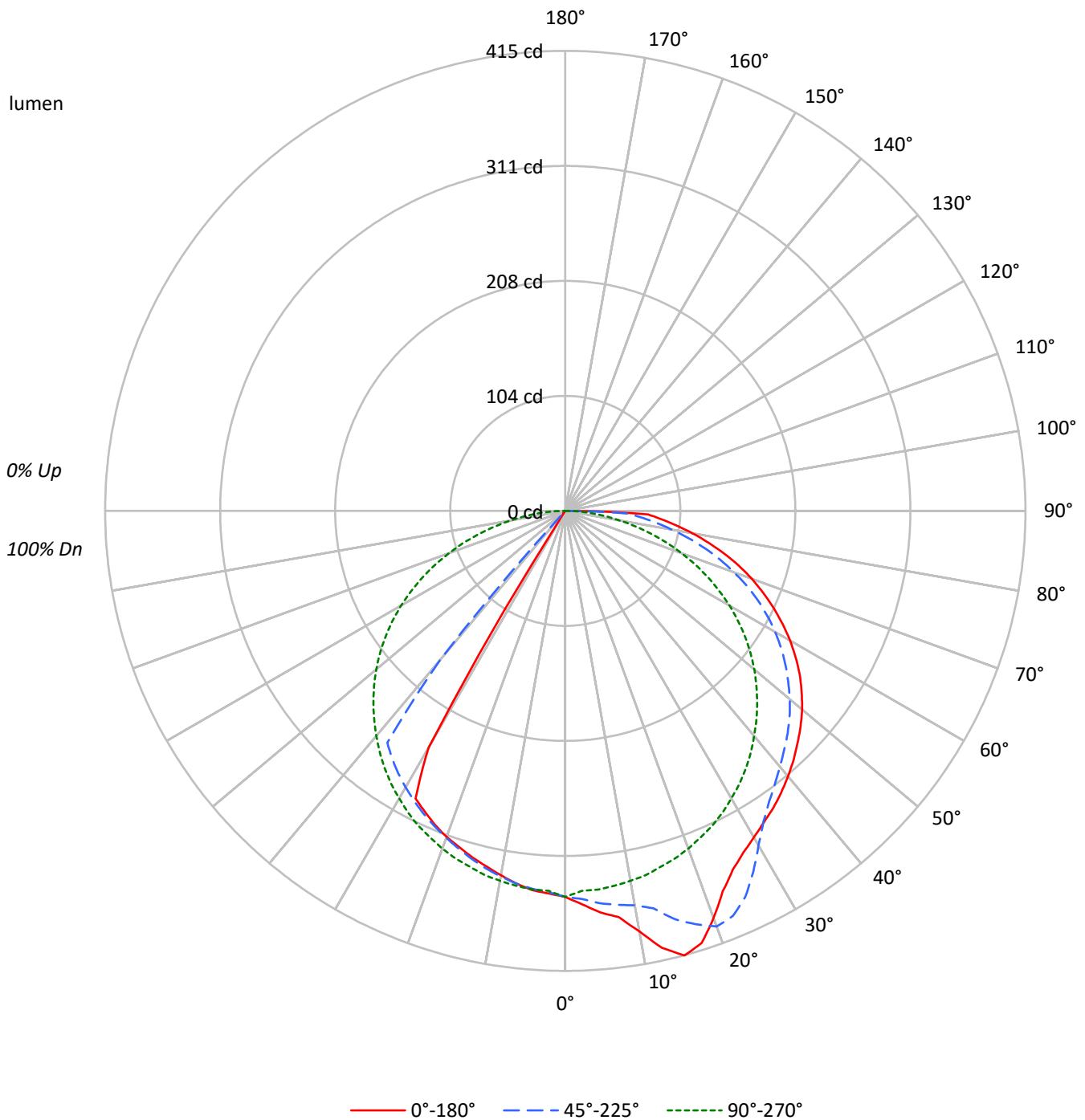
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 942.0 lumens
Efficiency: N/A
Efficacy: 136.5 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°	9091	9091	9091	9091	9091
5°	9532	9312	8984	8968	9000
10°	10215	9578	8982	8876	8849
15°	11222	10306	8984	8790	8747
20°	10863	11086	9007	8721	8693
25°	10293	11065	9031	8691	8628
30°	10250	10503	9029	8679	7431
35°	10422	10212	9045	8682	102
40°	10650	10262	9032	5988	68
45°	10940	10471	9035	111	44
50°	11324	10731	9037	81	16
55°	11753	11038	9013	55	9
60°	12224	11414	8934	21	10
65°	12800	11861	8772	25	25
70°	13656	12359	8496	31	31
75°	14949	13154	8130	81	40
80°	17546	14719	7533	120	60
85°	26091	20669	7040	180	120

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 44771 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.4	3.5
10°-20°	99.6	10.6
20°-30°	153.1	16.3
30°-40°	164.1	17.4
40°-50°	149.0	15.8
50°-60°	135.9	14.4
60°-70°	101.1	10.7
70°-80°	71.2	7.6
80°-90°	34.5	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°	286.1	30.4
0°-40°	450.2	47.8
0°-60°	735.2	78.0
0°-90°	942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	942.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	348	348	348	348	348	
5°	364	355	343	342	343	35
15°	415	381	332	325	324	115
25°	357	384	314	302	300	166
35°	327	320	284	272	3	205
45°	296	284	245	3	1	229
55°	258	242	198	1	0	231
65°	207	192	142	0	0	205
75°	148	130	81	1	0	156
85°	87	69	24	1	0	88
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°	348.2	348.2	348.2	348.2	348.2	348.2	348.2	348.2	348.2
2.5°	355.3	351.4	350.4	353.2	343.0	349.8	344.2	345.4	345.4
5°	363.7	358.1	355.3	354.5	342.8	347.4	342.2	342.2	343.4
7.5°	369.5	363.3	358.3	356.3	341.0	345.0	339.0	339.0	339.0
10°	385.3	373.7	361.3	357.7	338.8	341.8	334.8	335.2	333.8
12.5°	403.8	393.4	367.1	357.1	336.4	337.8	330.4	330.2	328.6
15°	415.2	407.4	381.3	356.3	332.4	333.6	325.2	324.6	323.6
17.5°	408.8	407.6	391.0	355.7	328.8	327.8	319.5	318.9	318.1
20°	391.0	394.0	399.0	354.5	324.2	322.2	313.9	313.5	312.9
22.5°	371.3	374.3	395.4	356.5	318.7	316.3	307.9	307.5	306.7
25°	357.3	357.3	384.1	361.3	313.5	309.1	301.7	301.1	299.5
27.5°	347.6	345.8	367.1	366.7	306.9	301.9	295.1	294.5	292.5
30°	340.0	337.0	348.4	369.3	299.5	294.1	287.9	287.3	246.5
32.5°	333.2	330.0	332.6	371.5	292.1	285.8	280.4	200.0	8.8
35°	327.0	323.4	320.4	369.9	283.8	277.4	272.4	5.8	3.2
37.5°	320.0	317.3	310.5	361.5	274.8	268.4	263.6	3.2	2.8
40°	312.5	309.9	301.1	349.2	265.0	259.6	175.7	2.8	2.0
42.5°	304.7	302.7	292.3	331.2	255.2	249.9	5.6	2.2	1.6
45°	296.3	294.5	283.6	309.5	244.7	239.7	3.0	1.6	1.2
47.5°	287.7	285.2	274.4	286.1	233.9	228.9	2.6	1.2	0.8
50°	278.8	276.0	264.2	265.6	222.5	217.6	2.0	0.8	0.4
52.5°	268.8	265.4	253.4	247.1	210.6	206.0	1.6	0.4	0.2
55°	258.2	254.4	242.5	230.9	198.0	192.8	1.2	0.4	0.2
57.5°	246.5	242.3	230.9	215.6	184.7	130.4	0.8	0.4	0.2
60°	234.1	229.9	218.6	201.2	171.1	9.0	0.4	0.4	0.2
62.5°	220.9	216.6	205.6	186.6	156.5	7.4	0.4	0.4	0.4
65°	207.2	202.0	192.0	171.7	142.0	6.2	0.4	0.4	0.4
67.5°	193.4	186.8	177.5	156.3	127.0	5.2	0.4	0.4	0.4
70°	178.9	171.7	161.9	140.8	111.3	4.2	0.4	0.4	0.4
72.5°	163.9	156.9	146.4	125.0	96.5	3.2	0.4	0.4	0.4
75°	148.2	141.8	130.4	109.3	80.6	2.4	0.8	0.4	0.4
77.5°	131.8	126.8	114.1	93.1	65.0	1.6	0.8	0.4	0.4
80°	116.7	111.1	97.9	76.8	50.1	1.2	0.8	0.6	0.4
82.5°	101.1	96.1	83.0	61.8	35.9	1.0	0.8	0.6	0.4
85°	87.1	82.4	69.0	48.3	23.5	0.8	0.6	0.6	0.4
87.5°	74.8	70.4	57.2	35.3	13.4	0.6	0.6	0.6	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	22.20	23.81	22.57	24.13	24.44	17.63	19.25	18.00	19.56	19.88
	3H	24.65	26.11	25.02	26.44	26.80	18.28	19.74	18.65	20.07	20.43
	4H	25.77	27.15	26.17	27.50	27.88	18.42	19.80	18.82	20.15	20.53
	6H	26.86	28.15	27.28	28.51	28.90	18.46	19.75	18.87	20.11	20.50
	8H	27.39	28.62	27.82	29.01	29.41	18.45	19.68	18.87	20.07	20.47
	12H	27.96	29.14	28.39	29.52	29.95	18.43	19.61	18.86	19.99	20.42
4H	2H	22.86	24.24	23.26	24.59	24.96	18.76	20.14	19.16	20.49	20.87
	3H	25.55	26.71	25.96	27.11	27.51	20.10	21.27	20.51	21.67	22.07
	4H	26.84	27.90	27.27	28.32	28.75	20.64	21.70	21.07	22.11	22.55
	6H	28.12	29.06	28.58	29.50	29.95	20.91	21.85	21.37	22.29	22.74
	8H	28.75	29.63	29.21	30.07	30.53	20.95	21.83	21.41	22.27	22.73
	12H	29.44	30.23	29.92	30.70	31.17	20.96	21.75	21.44	22.23	22.70
8H	4H	27.20	28.08	27.66	28.52	28.99	21.58	22.46	22.04	22.90	23.37
	6H	28.69	29.43	29.18	29.91	30.39	22.18	22.91	22.67	23.40	23.87
	8H	29.47	30.14	29.98	30.64	31.13	22.35	23.02	22.86	23.52	24.01
	12H	30.36	30.95	30.87	31.44	32.00	22.46	23.05	22.96	23.54	24.10
12H	4H	27.25	28.04	27.72	28.51	28.98	21.80	22.59	22.28	23.07	23.54
	6H	28.78	29.44	29.28	29.95	30.43	22.53	23.19	23.03	23.70	24.18
	8H	29.66	30.25	30.16	30.74	31.30	22.84	23.43	23.34	23.92	24.48