

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: P892980

Luminaire Tested: 2MB-SC3-ASYMR-UNV-CC83-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892980
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-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 80CRI, 5000K CCT, LOW setting
Light Source: -
Ballast/Driver: -

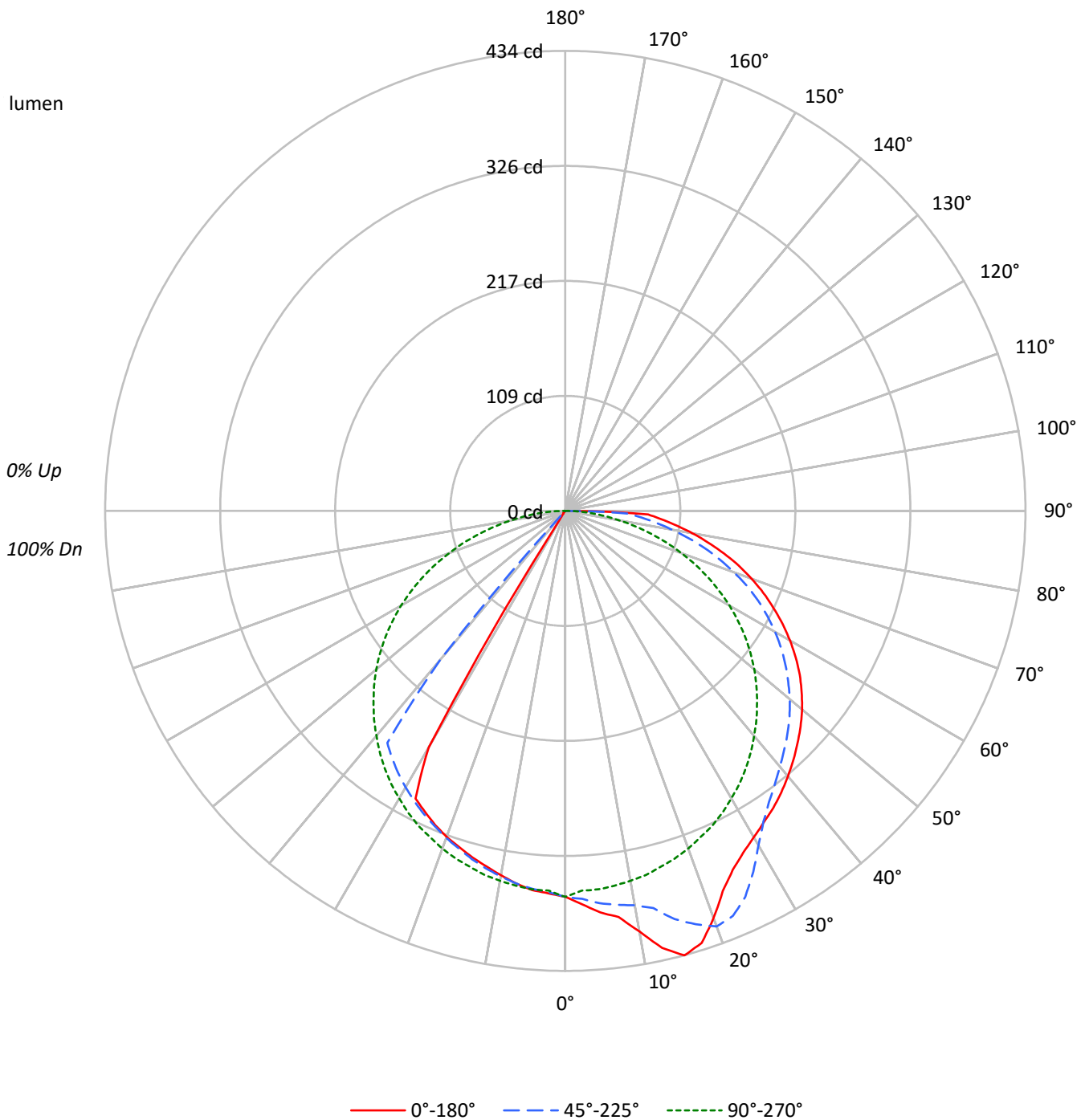
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 985.0 lumens
Efficiency: N/A
Efficacy: 142.7 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°	9506	9506	9506	9506	9506
5°	9967	9739	9393	9377	9411
10°	10679	10016	9393	9281	9252
15°	11733	10776	9395	9193	9147
20°	11361	11591	9419	9119	9091
25°	10762	11569	9443	9089	9022
30°	10717	10982	9442	9077	7769
35°	10900	10680	9456	9077	105
40°	11134	10729	9444	6261	72
45°	11438	10947	9445	114	48
50°	11840	11222	9452	85	16
55°	12290	11539	9427	59	9
60°	12782	11931	9341	21	10
65°	13381	12405	9174	25	25
70°	14275	12923	8878	31	31
75°	15625	13759	8494	81	40
80°	18343	15396	7863	120	60
85°	27289	21598	7369	180	120

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 46806 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.9	3.5
10°-20°	104.2	10.6
20°-30°	160.1	16.3
30°-40°	171.6	17.4
40°-50°	155.8	15.8
50°-60°	142.2	14.4
60°-70°	105.7	10.7
70°-80°	74.4	7.6
80°-90°	36.0	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°	299.2	30.4
0°-40°	470.8	47.8
0°-60°	768.8	78.0
0°-90°	985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	985.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	364	364	364	364	364	
5°	380	372	358	358	359	37
15°	434	399	348	340	338	120
25°	374	402	328	316	313	174
35°	342	335	297	285	3	214
45°	310	296	256	3	1	239
55°	270	254	207	1	0	241
65°	217	201	148	0	0	214
75°	155	136	84	1	0	163
85°	91	72	25	1	0	92
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°	364.1	364.1	364.1	364.1	364.1	364.1	364.1	364.1	364.1
2.5°	371.6	367.4	366.4	369.3	358.6	365.7	359.9	361.1	361.1
5°	380.3	374.5	371.6	370.7	358.4	363.2	357.8	357.8	359.1
7.5°	386.4	379.9	374.7	372.6	356.6	360.7	354.5	354.5	354.5
10°	402.8	390.7	377.8	374.1	354.3	357.4	350.1	350.5	349.0
12.5°	422.2	411.4	383.9	373.4	351.8	353.2	345.5	345.3	343.6
15°	434.1	426.0	398.7	372.6	347.6	348.8	340.1	339.5	338.4
17.5°	427.4	426.2	408.9	372.0	343.8	342.8	334.0	333.4	332.6
20°	408.9	412.0	417.2	370.7	339.0	337.0	328.2	327.8	327.2
22.5°	388.2	391.4	413.5	372.8	333.2	330.7	321.9	321.5	320.7
25°	373.6	373.6	401.6	377.8	327.8	323.2	315.5	314.8	313.2
27.5°	363.4	361.6	383.9	383.4	320.9	315.7	308.6	308.0	305.9
30°	355.5	352.4	364.3	386.2	313.2	307.6	301.1	300.5	257.7
32.5°	348.4	345.1	347.8	388.5	305.5	298.8	293.2	209.1	9.2
35°	342.0	338.2	335.1	386.8	296.7	290.0	284.8	6.0	3.3
37.5°	334.7	331.7	324.6	378.0	287.3	280.7	275.7	3.3	2.9
40°	326.7	324.0	314.8	365.1	277.1	271.5	183.7	2.9	2.1
42.5°	318.6	316.5	305.7	346.3	266.9	261.3	5.8	2.3	1.7
45°	309.8	308.0	296.5	323.6	255.8	250.6	3.1	1.7	1.3
47.5°	300.9	298.2	286.9	299.2	244.6	239.4	2.7	1.3	0.8
50°	291.5	288.6	276.3	277.7	232.7	227.5	2.1	0.8	0.4
52.5°	281.1	277.5	265.0	258.3	220.2	215.4	1.7	0.4	0.2
55°	270.0	266.1	253.5	241.5	207.1	201.6	1.3	0.4	0.2
57.5°	257.7	253.3	241.5	225.4	193.1	136.4	0.8	0.4	0.2
60°	244.8	240.4	228.5	210.4	178.9	9.4	0.4	0.4	0.2
62.5°	231.0	226.4	215.0	195.2	163.7	7.7	0.4	0.4	0.4
65°	216.6	211.2	200.8	179.5	148.5	6.5	0.4	0.4	0.4
67.5°	202.3	195.4	185.6	163.5	132.8	5.4	0.4	0.4	0.4
70°	187.0	179.5	169.3	147.2	116.3	4.4	0.4	0.4	0.4
72.5°	171.4	164.1	153.0	130.7	100.9	3.3	0.4	0.4	0.4
75°	154.9	148.3	136.4	114.3	84.2	2.5	0.8	0.4	0.4
77.5°	137.8	132.6	119.3	97.4	68.0	1.7	0.8	0.4	0.4
80°	122.0	116.1	102.4	80.3	52.3	1.3	0.8	0.6	0.4
82.5°	105.7	100.5	86.7	64.6	37.5	1.0	0.8	0.6	0.4
85°	91.1	86.1	72.1	50.5	24.6	0.8	0.6	0.6	0.4
87.5°	78.2	73.6	59.8	36.9	14.0	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	22.36	23.97	22.72	24.28	24.60	17.79	19.40	18.15	19.72	20.03
	3H	24.80	26.27	25.18	26.59	26.95	18.43	19.89	18.81	20.22	20.58
	4H	25.93	27.31	26.32	27.66	28.03	18.57	19.96	18.97	20.30	20.68
	6H	27.02	28.30	27.43	28.67	29.06	18.62	19.90	19.03	20.26	20.66
	8H	27.55	28.78	27.97	29.17	29.56	18.60	19.83	19.03	20.22	20.62
	12H	28.12	29.29	28.55	29.68	30.11	18.59	19.76	19.01	20.15	20.57
4H	2H	23.01	24.39	23.41	24.74	25.12	18.92	20.30	19.31	20.65	21.02
	3H	25.70	26.87	26.11	27.27	27.67	20.26	21.43	20.67	21.82	22.22
	4H	27.00	28.06	27.43	28.47	28.91	20.79	21.85	21.22	22.27	22.70
	6H	28.28	29.21	28.73	29.65	30.11	21.07	22.00	21.52	22.44	22.90
	8H	28.91	29.78	29.36	30.22	30.69	21.10	21.98	21.56	22.42	22.89
	12H	29.59	30.38	30.07	30.86	31.33	21.12	21.91	21.59	22.38	22.85
8H	4H	27.36	28.24	27.82	28.68	29.14	21.74	22.62	22.20	23.06	23.52
	6H	28.84	29.58	29.34	30.07	30.54	22.33	23.07	22.82	23.55	24.03
	8H	29.63	30.29	30.13	30.80	31.28	22.51	23.17	23.01	23.68	24.16
	12H	30.52	31.11	31.02	31.60	32.16	22.61	23.20	23.11	23.69	24.25
12H	4H	27.40	28.19	27.88	28.67	29.14	21.96	22.75	22.44	23.22	23.69
	6H	28.93	29.60	29.44	30.10	30.59	22.68	23.35	23.19	23.85	24.34
	8H	29.81	30.40	30.32	30.89	31.45	22.99	23.58	23.50	24.07	24.63