

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: P892987

Luminaire Tested: 2MB-SC3-ASYMR-UNV-CC93-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892987
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-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 90CRI, 3500K CCT, LOW setting
Light Source: -
Ballast/Driver: -

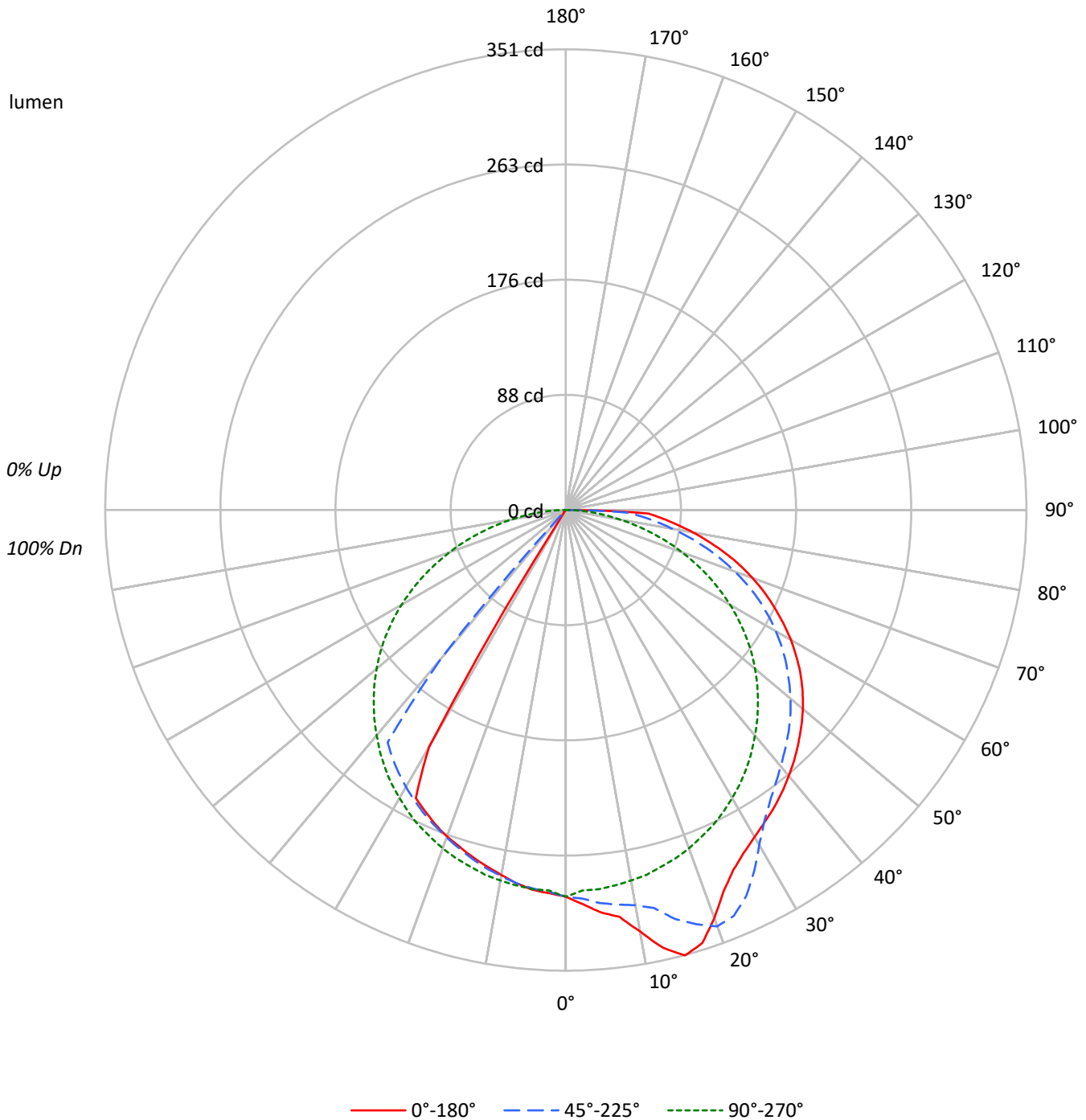
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 797.0 lumens
Efficiency: N/A
Efficacy: 115.5 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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	71	71	71	69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	53	50
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	46	46	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	41	41	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	36	36	36	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	33	33	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7691	7691	7691	7691	7691
5°	8064	7878	7600	7587	7613
10°	8642	8104	7598	7510	7487
15°	9495	8720	7601	7438	7401
20°	9191	9380	7621	7379	7354
25°	8708	9359	7640	7354	7300
30°	8673	8884	7639	7344	6286
35°	8819	8640	7652	7346	86
40°	9011	8684	7641	5065	58
45°	9256	8858	7643	92	37
50°	9581	9078	7648	69	12
55°	9946	9340	7624	46	9
60°	10344	9655	7561	16	10
65°	10829	10039	7419	19	19
70°	11549	10458	7183	23	23
75°	12650	11126	6880	71	30
80°	14840	12449	6360	105	45
85°	22077	17494	5961	150	90

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 37888 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.2	3.5
10°-20°	84.3	10.6
20°-30°	129.6	16.3
30°-40°	138.8	17.4
40°-50°	126.1	15.8
50°-60°	115.0	14.4
60°-70°	85.6	10.7
70°-80°	60.2	7.6
80°-90°	29.2	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°	242.1	30.4
0°-40°	380.9	47.8
0°-60°	622.0	78.0
0°-90°	797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	797.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	295	295	295	295	295	
5°	308	301	290	290	290	30
15°	351	323	281	275	274	97
25°	302	325	265	255	253	141
35°	277	271	240	230	3	173
45°	251	240	207	2	1	194
55°	218	205	168	1	0	195
65°	175	162	120	0	0	174
75°	125	110	68	1	0	132
85°	74	58	20	0	0	74
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°	294.6	294.6	294.6	294.6	294.6	294.6	294.6	294.6	294.6
2.5°	300.6	297.3	296.4	298.8	290.2	295.9	291.2	292.2	292.2
5°	307.7	303.0	300.6	300.0	290.0	293.9	289.5	289.5	290.5
7.5°	312.6	307.4	303.2	301.5	288.5	291.9	286.8	286.8	286.8
10°	326.0	316.2	305.7	302.7	286.6	289.2	283.3	283.6	282.4
12.5°	341.6	332.9	310.6	302.2	284.6	285.8	279.6	279.4	278.0
15°	351.3	344.7	322.6	301.5	281.2	282.3	275.2	274.7	273.8
17.5°	345.9	344.8	330.8	301.0	278.2	277.4	270.3	269.8	269.1
20°	330.8	333.4	337.6	300.0	274.3	272.6	265.6	265.2	264.7
22.5°	314.1	316.7	334.6	301.7	269.6	267.6	260.5	260.2	259.5
25°	302.3	302.3	324.9	305.7	265.2	261.5	255.3	254.8	253.4
27.5°	294.1	292.5	310.6	310.3	259.6	255.4	249.7	249.2	247.5
30°	287.7	285.1	294.7	312.5	253.4	248.9	243.6	243.1	208.5
32.5°	281.9	279.2	281.4	314.3	247.2	241.8	237.2	169.2	7.4
35°	276.7	273.7	271.1	313.0	240.1	234.7	230.5	4.9	2.7
37.5°	270.8	268.4	262.7	305.9	232.5	227.1	223.0	2.7	2.4
40°	264.4	262.2	254.8	295.4	224.2	219.7	148.6	2.4	1.7
42.5°	257.8	256.1	247.3	280.2	216.0	211.4	4.7	1.9	1.3
45°	250.7	249.2	239.9	261.8	207.0	202.8	2.5	1.3	1.0
47.5°	243.5	241.3	232.1	242.1	197.9	193.7	2.2	1.0	0.7
50°	235.9	233.5	223.5	224.7	188.3	184.1	1.7	0.7	0.3
52.5°	227.4	224.6	214.4	209.0	178.2	174.3	1.3	0.3	0.2
55°	218.5	215.3	205.2	195.4	167.5	163.1	1.0	0.3	0.2
57.5°	208.5	205.0	195.4	182.4	156.2	110.3	0.7	0.3	0.2
60°	198.1	194.5	184.9	170.2	144.8	7.6	0.3	0.3	0.2
62.5°	186.9	183.2	173.9	157.9	132.4	6.2	0.3	0.3	0.3
65°	175.3	170.9	162.5	145.3	120.1	5.2	0.3	0.3	0.3
67.5°	163.7	158.1	150.2	132.3	107.5	4.4	0.3	0.3	0.3
70°	151.3	145.3	137.0	119.1	94.1	3.5	0.3	0.3	0.3
72.5°	138.7	132.8	123.8	105.8	81.7	2.7	0.3	0.3	0.3
75°	125.4	120.0	110.3	92.5	68.2	2.0	0.7	0.3	0.3
77.5°	111.5	107.3	96.5	78.8	55.0	1.3	0.7	0.3	0.3
80°	98.7	94.0	82.8	65.0	42.3	1.0	0.7	0.5	0.3
82.5°	85.5	81.3	70.2	52.3	30.4	0.8	0.7	0.5	0.3
85°	73.7	69.7	58.4	40.8	19.9	0.7	0.5	0.5	0.3
87.5°	63.3	59.6	48.4	29.9	11.3	0.5	0.5	0.5	0.3
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	21.62	23.23	21.98	23.55	23.86	17.05	18.67	17.42	18.98	19.29
	3H	24.07	25.53	24.44	25.86	26.22	17.69	19.16	18.07	19.48	19.84
	4H	25.19	26.57	25.59	26.92	27.30	17.84	19.22	18.24	19.57	19.94
	6H	26.28	27.57	26.69	27.93	28.32	17.88	19.16	18.29	19.53	19.92
	8H	26.81	28.04	27.24	28.43	28.83	17.87	19.09	18.29	19.48	19.88
	12H	27.38	28.56	27.81	28.94	29.37	17.85	19.03	18.28	19.41	19.84
4H	2H	22.28	23.66	22.68	24.01	24.38	18.18	19.56	18.58	19.91	20.28
	3H	24.97	26.13	25.38	26.53	26.93	19.52	20.69	19.93	21.09	21.49
	4H	26.26	27.32	26.69	27.74	28.17	20.06	21.12	20.49	21.53	21.97
	6H	27.54	28.48	28.00	28.92	29.37	20.33	21.27	20.78	21.71	22.16
	8H	28.17	29.05	28.63	29.49	29.95	20.37	21.25	20.83	21.69	22.15
	12H	28.86	29.65	29.34	30.12	30.59	20.38	21.17	20.86	21.65	22.11
8H	4H	26.62	27.50	27.08	27.94	28.41	21.00	21.88	21.46	22.32	22.79
	6H	28.11	28.84	28.60	29.33	29.81	21.59	22.33	22.09	22.82	23.29
	8H	28.89	29.56	29.40	30.06	30.54	21.77	22.44	22.28	22.94	23.43
	12H	29.78	30.37	30.29	30.86	31.42	21.87	22.47	22.38	22.96	23.51
12H	4H	26.67	27.46	27.14	27.93	28.40	21.22	22.01	21.70	22.49	22.96
	6H	28.20	28.86	28.70	29.37	29.85	21.94	22.61	22.45	23.11	23.60
	8H	29.08	29.67	29.58	30.16	30.72	22.26	22.85	22.76	23.34	23.90