

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: P892988

Luminaire Tested: 2MB-SC3-ASYMR-UNV-CC93-LOW-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892988
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-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 90CRI, 4000K CCT, LOW setting
Light Source: -
Ballast/Driver: -

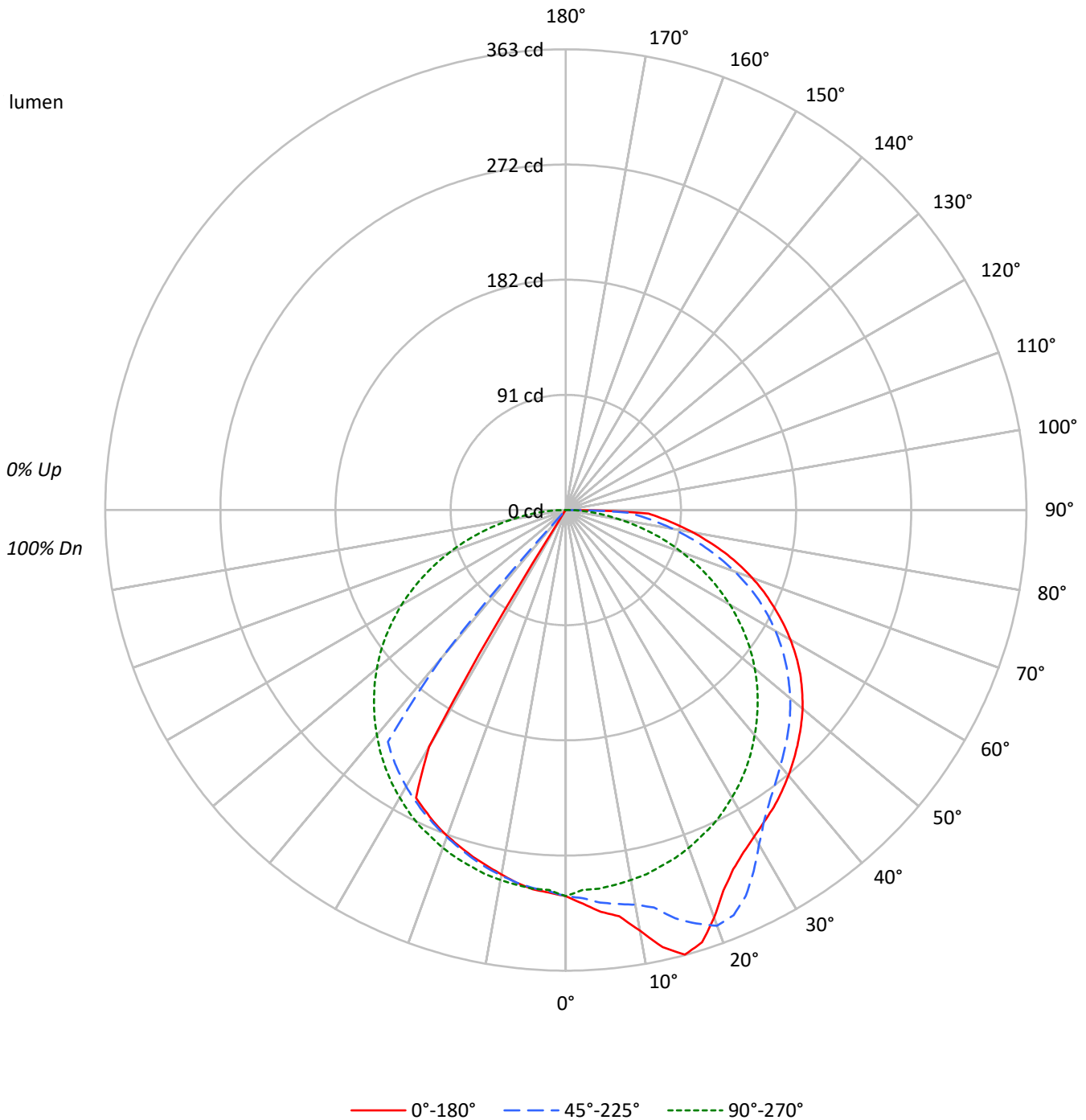
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 823.0 lumens
Efficiency: N/A
Efficacy: 119.3 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				
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°	7942	7942	7942	7942	7942
5°	8329	8137	7849	7836	7862
10°	8924	8369	7847	7754	7731
15°	9803	9003	7849	7679	7644
20°	9491	9685	7871	7618	7593
25°	8994	9665	7890	7594	7539
30°	8954	9177	7889	7585	6491
35°	9106	8924	7901	7586	89
40°	9304	8967	7890	5232	58
45°	9559	9146	7894	96	37
50°	9894	9374	7896	69	12
55°	10269	9641	7875	46	9
60°	10678	9968	7806	16	10
65°	11182	10366	7660	19	19
70°	11931	10801	7420	23	23
75°	13053	11489	7101	71	30
80°	15321	12855	6570	105	45
85°	22796	18063	6171	150	90

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 39085 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.2	3.5
10°-20°	87.0	10.6
20°-30°	133.8	16.3
30°-40°	143.4	17.4
40°-50°	130.2	15.8
50°-60°	118.8	14.4
60°-70°	88.3	10.7
70°-80°	62.2	7.6
80°-90°	30.1	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°	250.0	30.4
0°-40°	393.3	47.8
0°-60°	642.3	78.0
0°-90°	823.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	823.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	304	304	304	304	304	
5°	318	310	300	299	300	31
15°	363	333	290	284	283	100
25°	312	336	274	264	262	145
35°	286	280	248	238	3	179
45°	259	248	214	3	1	200
55°	226	212	173	1	0	201
65°	181	168	124	0	0	179
75°	129	114	70	1	0	136
85°	76	60	21	0	0	76
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°	304.2	304.2	304.2	304.2	304.2	304.2	304.2	304.2	304.2
2.5°	310.5	307.0	306.1	308.5	299.7	305.6	300.7	301.7	301.7
5°	317.8	312.9	310.5	309.8	299.5	303.5	299.0	299.0	300.0
7.5°	322.8	317.4	313.1	311.3	297.9	301.4	296.2	296.2	296.2
10°	336.6	326.5	315.7	312.5	296.0	298.6	292.5	292.9	291.6
12.5°	352.8	343.7	320.7	312.0	293.9	295.1	288.7	288.5	287.1
15°	362.7	355.9	333.1	311.3	290.4	291.5	284.1	283.6	282.8
17.5°	357.1	356.1	341.6	310.8	287.3	286.4	279.1	278.6	277.9
20°	341.6	344.3	348.6	309.8	283.3	281.5	274.2	273.9	273.3
22.5°	324.4	327.0	345.5	311.5	278.4	276.3	269.0	268.6	267.9
25°	312.2	312.2	335.5	315.7	273.9	270.0	263.6	263.1	261.7
27.5°	303.7	302.1	320.7	320.4	268.1	263.8	257.8	257.3	255.6
30°	297.0	294.4	304.4	322.6	261.7	257.0	251.6	251.0	215.3
32.5°	291.1	288.3	290.6	324.6	255.2	249.7	244.9	174.7	7.7
35°	285.7	282.6	280.0	323.2	247.9	242.3	238.0	5.1	2.8
37.5°	279.6	277.2	271.3	315.9	240.1	234.5	230.3	2.8	2.4
40°	273.0	270.7	263.1	305.1	231.5	226.8	153.5	2.4	1.7
42.5°	266.2	264.5	255.4	289.4	223.0	218.3	4.9	1.9	1.4
45°	258.9	257.3	247.7	270.4	213.8	209.4	2.6	1.4	1.0
47.5°	251.4	249.1	239.7	250.0	204.4	200.0	2.3	1.0	0.7
50°	243.6	241.1	230.8	232.1	194.4	190.1	1.7	0.7	0.3
52.5°	234.8	231.9	221.4	215.9	184.0	180.0	1.4	0.3	0.2
55°	225.6	222.3	211.8	201.7	173.0	168.5	1.0	0.3	0.2
57.5°	215.3	211.7	201.7	188.3	161.3	113.9	0.7	0.3	0.2
60°	204.5	200.9	190.9	175.8	149.5	7.8	0.3	0.3	0.2
62.5°	193.0	189.2	179.6	163.1	136.8	6.4	0.3	0.3	0.3
65°	181.0	176.5	167.8	150.0	124.0	5.4	0.3	0.3	0.3
67.5°	169.0	163.2	155.1	136.6	111.0	4.5	0.3	0.3	0.3
70°	156.3	150.0	141.5	123.0	97.2	3.7	0.3	0.3	0.3
72.5°	143.2	137.1	127.9	109.2	84.3	2.8	0.3	0.3	0.3
75°	129.4	123.9	113.9	95.5	70.4	2.1	0.7	0.3	0.3
77.5°	115.2	110.8	99.7	81.4	56.8	1.4	0.7	0.3	0.3
80°	101.9	97.0	85.5	67.1	43.7	1.0	0.7	0.5	0.3
82.5°	88.3	84.0	72.5	54.0	31.4	0.9	0.7	0.5	0.3
85°	76.1	72.0	60.3	42.2	20.6	0.7	0.5	0.5	0.3
87.5°	65.3	61.5	50.0	30.8	11.7	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	21.73	23.35	22.10	23.66	23.97	17.16	18.78	17.53	19.09	19.41
	3H	24.18	25.64	24.55	25.97	26.33	17.81	19.27	18.18	19.60	19.96
	4H	25.30	26.68	25.70	27.03	27.41	17.95	19.33	18.35	19.68	20.06
	6H	26.39	27.68	26.81	28.04	28.43	17.99	19.28	18.40	19.64	20.03
	8H	26.92	28.15	27.35	28.54	28.94	17.98	19.21	18.40	19.60	19.99
	12H	27.49	28.67	27.92	29.05	29.48	17.96	19.14	18.39	19.52	19.95
4H	2H	22.39	23.77	22.79	24.12	24.49	18.29	19.67	18.69	20.02	20.40
	3H	25.08	26.25	25.49	26.64	27.04	19.63	20.80	20.04	21.20	21.60
	4H	26.37	27.44	26.80	27.85	28.28	20.17	21.23	20.60	21.64	22.08
	6H	27.65	28.59	28.11	29.03	29.48	20.44	21.38	20.90	21.82	22.27
	8H	28.28	29.16	28.74	29.60	30.06	20.48	21.36	20.94	21.80	22.26
	12H	28.97	29.76	29.45	30.23	30.70	20.49	21.28	20.97	21.76	22.23
8H	4H	26.74	27.61	27.20	28.05	28.52	21.12	21.99	21.57	22.43	22.90
	6H	28.22	28.96	28.71	29.44	29.92	21.71	22.44	22.20	22.93	23.40
	8H	29.00	29.67	29.51	30.17	30.66	21.88	22.55	22.39	23.05	23.54
	12H	29.89	30.48	30.40	30.97	31.53	21.99	22.58	22.49	23.07	23.63
12H	4H	26.78	27.57	27.26	28.04	28.51	21.33	22.12	21.81	22.60	23.07
	6H	28.31	28.97	28.81	29.48	29.96	22.06	22.72	22.56	23.23	23.71
	8H	29.19	29.78	29.69	30.27	30.83	22.37	22.96	22.87	23.45	24.01