

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: P893064

Luminaire Tested: 2MB-SC3-LVRA-UNV-CC93-MID-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-LVRA-UNV-CC93-MID-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 5000K CCT, MI
lumen setting
Light Source: -
Ballast/Driver: -

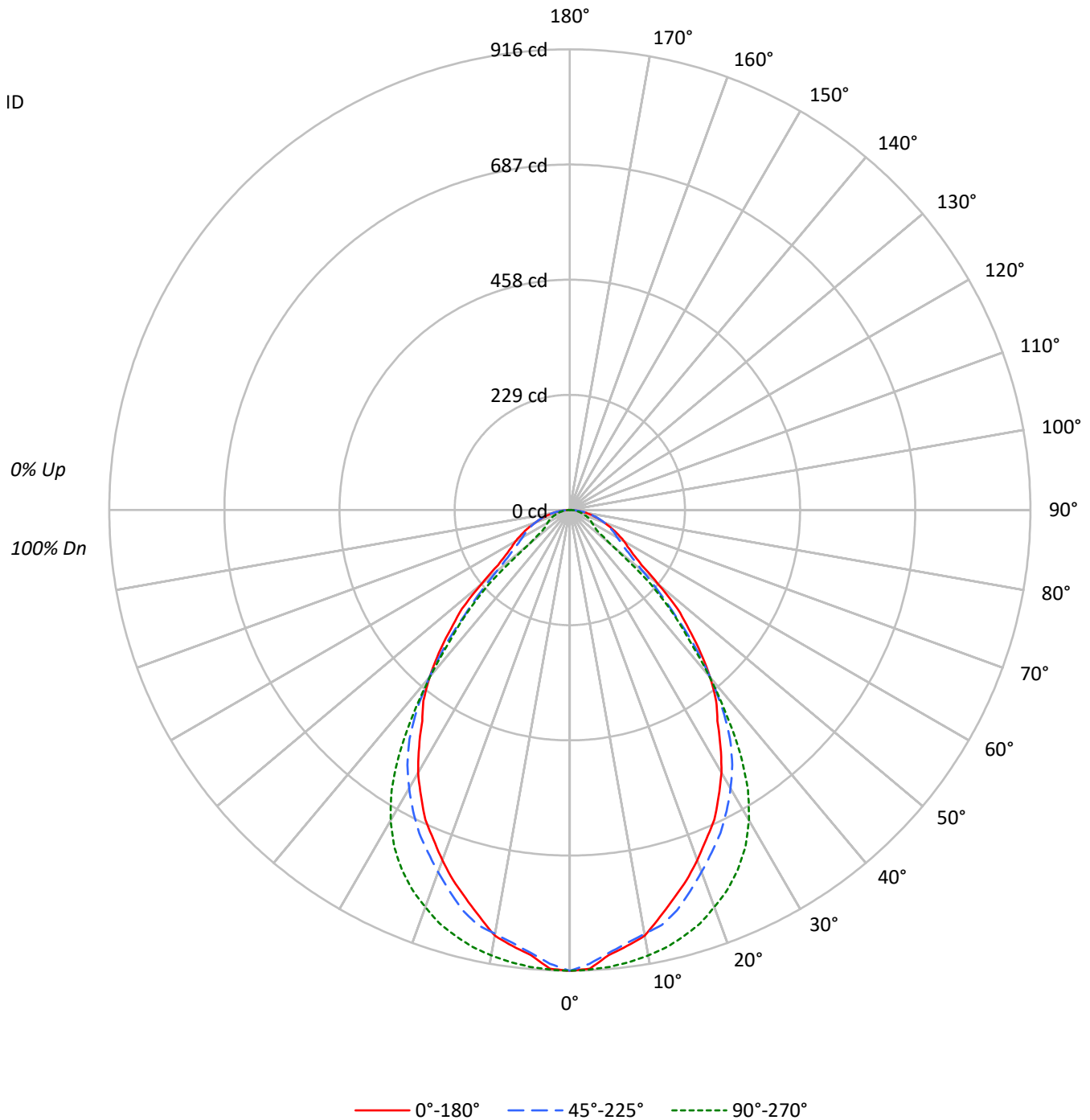
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1487.0 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 13.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 5.65231997856897
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P893064
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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	80	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	71	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	63	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	52	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	47	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	37	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13107	13107	13107
5°	12753	12696	13092
10°	12482	12427	13062
15°	11838	12202	12988
20°	11278	11658	12791
25°	10727	11186	12465
30°	9966	10559	11768
35°	8936	9703	10323
40°	8097	8114	8069
45°	6769	5996	5847
50°	5114	4220	2390
55°	3846	3374	1509
60°	3574	3107	1453
65°	3324	3101	1456
70°	3041	3041	1430
75°	2885	2963	1382
80°	2669	2801	1417
85°	2331	2446	1543

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6927 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	5.7
10°-20°	233.2	15.7
20°-30°	330.7	22.2
30°-40°	340.7	22.9
40°-50°	238.0	16.0
50°-60°	114.2	7.7
60°-70°	80.1	5.4
70°-80°	50.1	3.4
80°-90°	15.5	1.0
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°	648.5	43.6
0°-40°	989.2	66.5
0°-60°	1341.3	90.2
0°-90°	1487.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1487.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	916	916	916	916	916	
5°	888	887	884	907	912	84
15°	799	805	824	848	877	225
25°	680	686	709	757	790	311
35°	512	526	556	567	591	322
45°	335	342	296	281	289	258
55°	154	147	135	87	60	145
65°	98	92	92	70	43	97
75°	52	52	54	46	25	55
85°	14	14	15	15	9	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	916.2	916.2	916.2	916.2	916.2
2.5°	912.7	909.9	903.0	915.5	914.6
5°	888.1	886.9	884.1	907.3	911.7
7.5°	874.2	871.8	868.5	894.0	906.5
10°	859.3	862.1	855.5	878.9	899.2
12.5°	828.6	836.2	845.1	863.3	890.3
15°	799.3	805.2	823.9	847.5	877.0
17.5°	771.9	778.8	794.8	830.3	861.7
20°	740.8	750.2	765.8	811.1	840.2
22.5°	708.7	717.4	737.0	785.6	818.0
25°	679.6	686.5	708.7	756.6	789.7
27.5°	641.1	653.9	674.9	721.2	755.9
30°	603.3	614.2	639.2	678.2	712.4
32.5°	557.8	573.6	601.2	631.0	659.5
35°	511.7	525.6	555.6	567.2	591.1
37.5°	478.2	482.0	499.0	497.5	511.0
40°	433.6	441.1	434.5	416.8	432.1
42.5°	385.4	394.4	367.7	347.1	352.6
45°	334.6	342.4	296.4	281.2	289.0
47.5°	290.7	290.0	239.0	228.8	218.0
50°	229.8	237.3	189.6	170.7	107.4
52.5°	179.5	182.3	156.3	109.1	70.6
55°	154.2	146.6	135.3	86.7	60.5
57.5°	137.0	127.5	120.0	80.5	55.3
60°	124.9	114.3	108.6	76.5	50.8
62.5°	111.2	103.0	100.8	73.0	46.8
65°	98.2	91.9	91.6	69.7	43.0
67.5°	85.2	81.7	82.6	65.6	38.7
70°	72.7	72.0	72.7	60.5	34.2
72.5°	62.1	61.4	63.3	53.8	29.3
75°	52.2	51.5	53.6	46.3	25.0
77.5°	41.6	42.0	43.4	38.5	21.0
80°	32.4	32.4	34.0	30.2	17.2
82.5°	23.1	23.4	24.3	22.2	13.5
85°	14.2	14.2	14.9	14.6	9.4
87.5°	4.7	5.4	6.4	6.8	4.7
90°	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	14.59	15.94	14.95	16.25	16.57	10.92	12.27	11.28	12.58	12.90
	3H	16.32	17.53	16.70	17.86	18.22	12.89	14.10	13.27	14.43	14.79
	4H	17.00	18.12	17.40	18.47	18.86	13.60	14.73	14.00	15.08	15.46
	6H	17.50	18.54	17.92	18.91	19.31	14.12	15.16	14.53	15.53	15.92
	8H	17.68	18.66	18.10	19.05	19.46	14.31	15.29	14.74	15.68	16.09
	12H	17.78	18.73	18.22	19.11	19.54	14.44	15.39	14.88	15.77	16.20
4H	2H	15.12	16.24	15.52	16.59	16.98	12.54	13.67	12.94	14.02	14.40
	3H	17.09	18.02	17.51	18.43	18.83	14.72	15.65	15.13	16.05	16.45
	4H	17.90	18.73	18.33	19.15	19.59	15.60	16.43	16.03	16.85	17.29
	6H	18.54	19.26	19.00	19.71	20.17	16.24	16.96	16.70	17.41	17.87
	8H	18.76	19.44	19.23	19.88	20.35	16.45	17.13	16.92	17.57	18.04
	12H	18.91	19.51	19.40	20.00	20.47	16.61	17.21	17.09	17.69	18.16
8H	4H	18.18	18.86	18.65	19.30	19.77	16.25	16.92	16.71	17.37	17.84
	6H	18.96	19.52	19.47	20.02	20.50	17.11	17.66	17.61	18.16	18.64
	8H	19.27	19.77	19.79	20.28	20.77	17.44	17.93	17.96	18.45	18.94
	12H	19.50	19.94	20.02	20.44	21.01	17.70	18.14	18.21	18.63	19.20
12H	4H	18.20	18.80	18.68	19.28	19.75	16.32	16.92	16.80	17.40	17.87
	6H	19.02	19.52	19.54	20.03	20.52	17.24	17.74	17.76	18.26	18.75
	8H	19.38	19.82	19.89	20.32	20.89	17.66	18.10	18.17	18.59	19.16