

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: P892929

Luminaire Tested: 2MB-SC3-AOL-UNV-CC83-MID-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-AOL-UNV-CC83-MID-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 800
5000K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

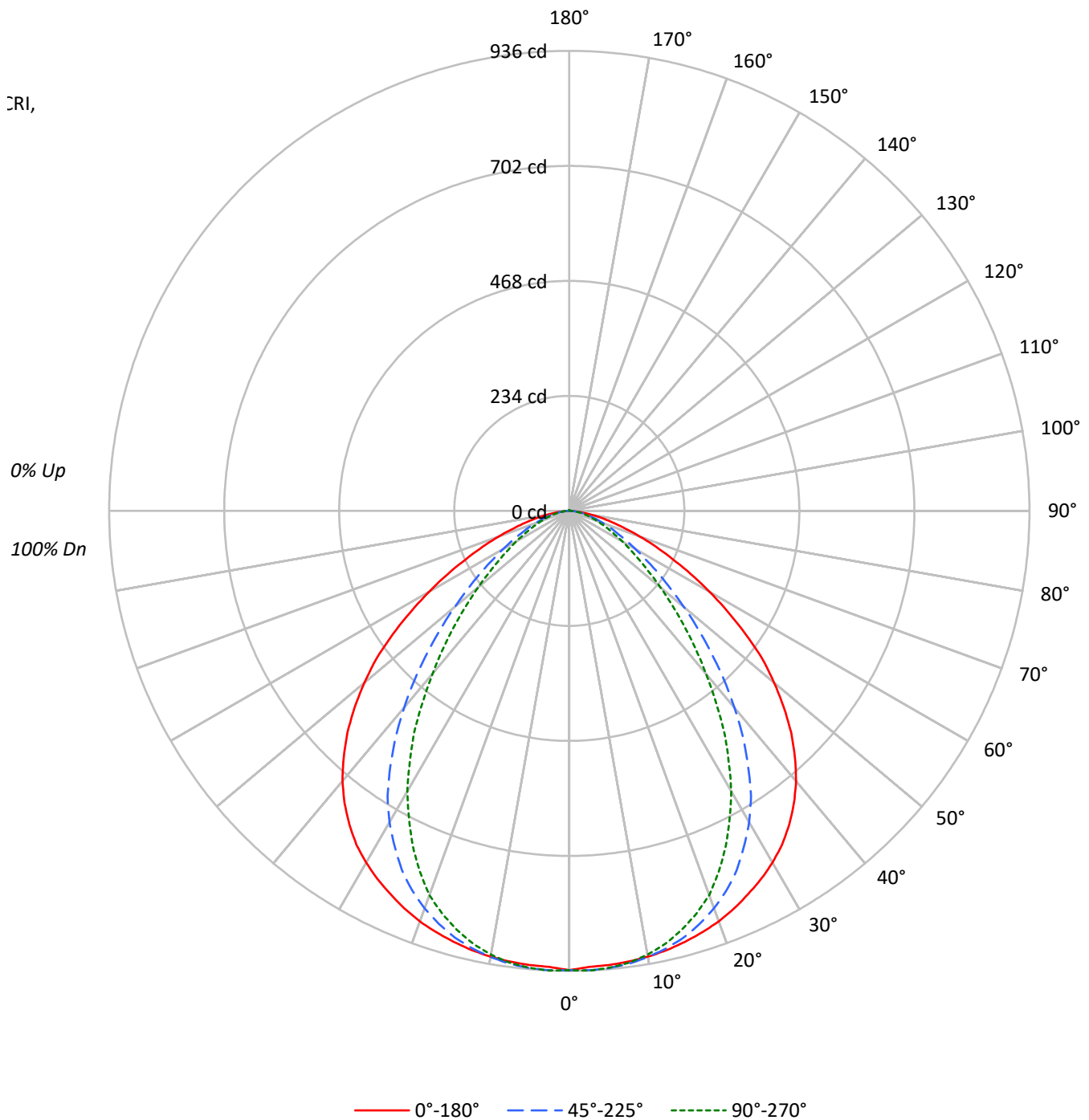
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1904.9 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.08 / 1.18
Luminous Opening: Rectangular (W 0.27' 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

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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	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	89	89	89	87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	78	78	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	68	68	68	66
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	60	60	60	58
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	53	53	53	52
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	48	48	48	46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	43	43	43	41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	39	39	39	37
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	36	36	36	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	33	33	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19133	19133	19133
5°	19062	19192	19180
10°	19152	19164	19060
15°	19244	19058	18710
20°	19370	18751	18130
25°	19442	18212	17015
30°	19537	17298	15579
35°	19488	15856	13738
40°	19184	13967	11550
45°	18478	11800	9530
50°	17326	9700	7687
55°	15651	7872	6180
60°	13478	6340	5123
65°	11202	5233	4254
70°	9190	4388	3628
75°	7294	3750	3149
80°	5519	3207	2830
85°	3712	2960	2678

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18478 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.7	4.7
10°-20°	252.9	13.3
20°-30°	370.4	19.4
30°-40°	404.2	21.2
40°-50°	342.7	18.0
50°-60°	232.9	12.2
60°-70°	131.6	6.9
70°-80°	60.0	3.2
80°-90°	15.7	0.8
90°-100°	2.0	0.1
100°-110°	1.2	0.1
110°-120°	0.7	0.0
120°-130°	0.6	0.0
130°-140°	0.5	0.0
140°-150°	0.4	0.0
150°-160°	0.3	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	712.0	37.4
0°-40°	1116.1	58.6
0°-60°	1691.8	88.8
0°-90°	1899.0	99.7
90°-120°	3.9	0.2
90°-150°	5.3	0.3
90°-180°	6.0	0.3
0°-180°	1904.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	934	934	934	934	934	
5°	927	932	934	936	933	88
15°	908	907	899	889	883	257
25°	860	846	806	770	753	397
35°	780	730	634	568	550	487
45°	638	539	408	346	329	490
55°	438	324	220	183	173	391
65°	231	164	108	92	88	233
75°	92	68	47	42	40	100
85°	16	14	13	12	11	20
90°	0	2	2	3	3	1
95°	0	1	2	3	3	0
105°	0	1	1	2	2	0
115°	0	0	1	1	1	0
125°	0	0	1	1	1	0
135°	1	1	1	1	1	0
145°	1	1	1	1	1	0
155°	1	1	1	1	1	0
165°	1	1	1	1	1	0
175°	1	1	1	1	1	0
180°	1	1	1	1	1	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	934.4	934.4	934.4	934.4	934.4
2.5°	928.7	933.7	935.6	938.2	936.3
5°	927.4	932.5	933.7	935.6	933.1
7.5°	924.9	929.3	929.3	929.3	927.4
10°	921.1	924.3	921.7	919.2	916.7
12.5°	915.4	916.7	911.6	907.2	902.2
15°	907.8	907.2	899.0	888.9	882.6
17.5°	899.0	896.5	881.3	868.0	859.2
20°	888.9	882.6	860.5	839.6	832.0
22.5°	875.6	866.8	835.8	806.8	794.1
25°	860.5	845.9	806.1	769.5	753.1
27.5°	844.7	823.2	769.5	724.0	706.3
30°	826.3	796.6	731.6	679.1	658.9
32.5°	805.5	767.6	688.0	624.8	603.3
35°	779.6	729.7	634.3	568.0	549.6
37.5°	750.5	689.2	580.0	511.1	489.0
40°	717.7	643.1	522.5	453.6	432.1
42.5°	679.1	593.9	465.6	398.6	380.3
45°	638.1	538.9	407.5	346.2	329.1
47.5°	592.0	484.6	354.4	296.3	283.0
50°	543.9	430.2	304.5	254.6	241.3
52.5°	495.3	375.9	258.4	216.1	204.7
55°	438.4	324.1	220.5	183.2	173.1
57.5°	382.8	278.0	184.5	153.5	147.2
60°	329.1	233.8	154.8	129.5	125.1
62.5°	279.2	195.8	130.1	109.3	103.6
65°	231.2	164.3	108.0	92.2	87.8
67.5°	190.2	133.9	90.3	76.4	72.7
70°	153.5	108.0	73.3	62.5	60.6
72.5°	119.4	86.6	60.0	51.8	49.9
75°	92.2	67.6	47.4	41.7	39.8
77.5°	67.6	50.5	36.6	32.2	31.0
80°	46.8	36.0	27.2	24.6	24.0
82.5°	29.7	23.4	19.6	17.7	17.7
85°	15.8	14.5	12.6	12.0	11.4
87.5°	6.3	6.9	6.9	6.9	6.3
90°	0.0	1.9	2.5	3.2	3.2
92.5°	0.0	1.3	2.5	3.2	3.2
95°	0.0	0.6	1.9	3.2	3.2
97.5°	0.0	0.6	1.9	2.5	2.5
100°	0.0	0.6	1.3	2.5	2.5
102.5°	0.0	0.6	1.3	1.9	2.5
105°	0.0	0.6	1.3	1.9	1.9
107.5°	0.0	0.0	1.3	1.9	1.9
110°	0.0	0.0	0.6	1.3	1.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.6	1.3	1.9
115°	0.0	0.0	0.6	1.3	1.3
117.5°	0.0	0.0	0.6	1.3	1.3
120°	0.0	0.0	0.6	1.3	1.3
122.5°	0.0	0.0	0.6	1.3	1.3
125°	0.0	0.0	0.6	1.3	1.3
127.5°	0.0	0.6	0.6	0.6	1.3
130°	0.0	0.6	0.6	0.6	1.3
132.5°	0.6	0.6	0.6	0.6	0.6
135°	0.6	0.6	0.6	0.6	0.6
137.5°	0.6	0.6	0.6	0.6	0.6
140°	0.6	0.6	0.6	0.6	0.6
142.5°	0.6	0.6	0.6	0.6	0.6
145°	0.6	0.6	0.6	0.6	0.6
147.5°	0.6	0.6	0.6	0.6	0.6
150°	0.6	0.6	0.6	0.6	0.6
152.5°	0.6	0.6	0.6	0.6	0.6
155°	0.6	0.6	0.6	0.6	0.6
157.5°	0.6	0.6	0.6	0.6	0.6
160°	0.6	0.6	0.6	0.6	1.3
162.5°	0.6	0.6	0.6	1.3	1.3
165°	0.6	0.6	0.6	1.3	1.3
167.5°	0.6	0.6	0.6	1.3	1.3
170°	0.6	0.6	0.6	1.3	1.3
172.5°	0.6	0.6	0.6	1.3	1.3
175°	0.6	0.6	1.3	1.3	1.3
177.5°	0.6	0.6	1.3	1.3	1.3
180°	1.3	1.3	1.3	1.3	1.3



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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	20.59	22.03	20.96	22.35	22.68	15.95	17.40	16.32	17.72	18.04
	3H	21.84	23.13	22.23	23.46	23.84	16.99	18.28	17.38	18.62	18.99
	4H	22.24	23.45	22.65	23.80	24.19	17.36	18.56	17.77	18.92	19.31
	6H	22.48	23.59	22.90	23.96	24.37	17.62	18.73	18.04	19.11	19.51
	8H	22.53	23.59	22.97	23.99	24.40	17.71	18.77	18.15	19.16	19.57
	12H	22.55	23.56	22.99	23.95	24.39	17.78	18.79	18.21	19.17	19.61
4H	2H	20.60	21.81	21.01	22.16	22.55	16.53	17.73	16.93	18.09	18.47
	3H	22.01	23.00	22.43	23.41	23.82	17.75	18.74	18.17	19.15	19.56
	4H	22.50	23.39	22.94	23.82	24.26	18.21	19.10	18.65	19.52	19.97
	6H	22.85	23.62	23.31	24.07	24.54	18.57	19.34	19.03	19.79	20.26
	8H	22.93	23.65	23.40	24.10	24.58	18.69	19.41	19.16	19.86	20.34
	12H	22.98	23.62	23.47	24.11	24.59	18.79	19.43	19.28	19.92	20.40
8H	4H	22.50	23.22	22.97	23.67	24.14	18.50	19.22	18.97	19.67	20.15
	6H	22.89	23.48	23.39	23.98	24.47	18.95	19.54	19.45	20.04	20.52
	8H	23.01	23.54	23.53	24.06	24.56	19.13	19.66	19.65	20.18	20.67
	12H	23.10	23.57	23.62	24.07	24.65	19.29	19.76	19.81	20.26	20.84
12H	4H	22.47	23.11	22.96	23.60	24.08	18.53	19.17	19.02	19.66	20.14
	6H	22.86	23.39	23.38	23.91	24.41	19.00	19.53	19.52	20.05	20.54
	8H	23.02	23.49	23.53	23.99	24.56	19.23	19.70	19.75	20.20	20.77