

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: P892899

Luminaire Tested: 2MB-SC3-A-UNV-CC93-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-A-UNV-CC93-LOW-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTIC, 90CRI, 5000K CCT, LOW lumen settir
Light Source: -
Ballast/Driver: -

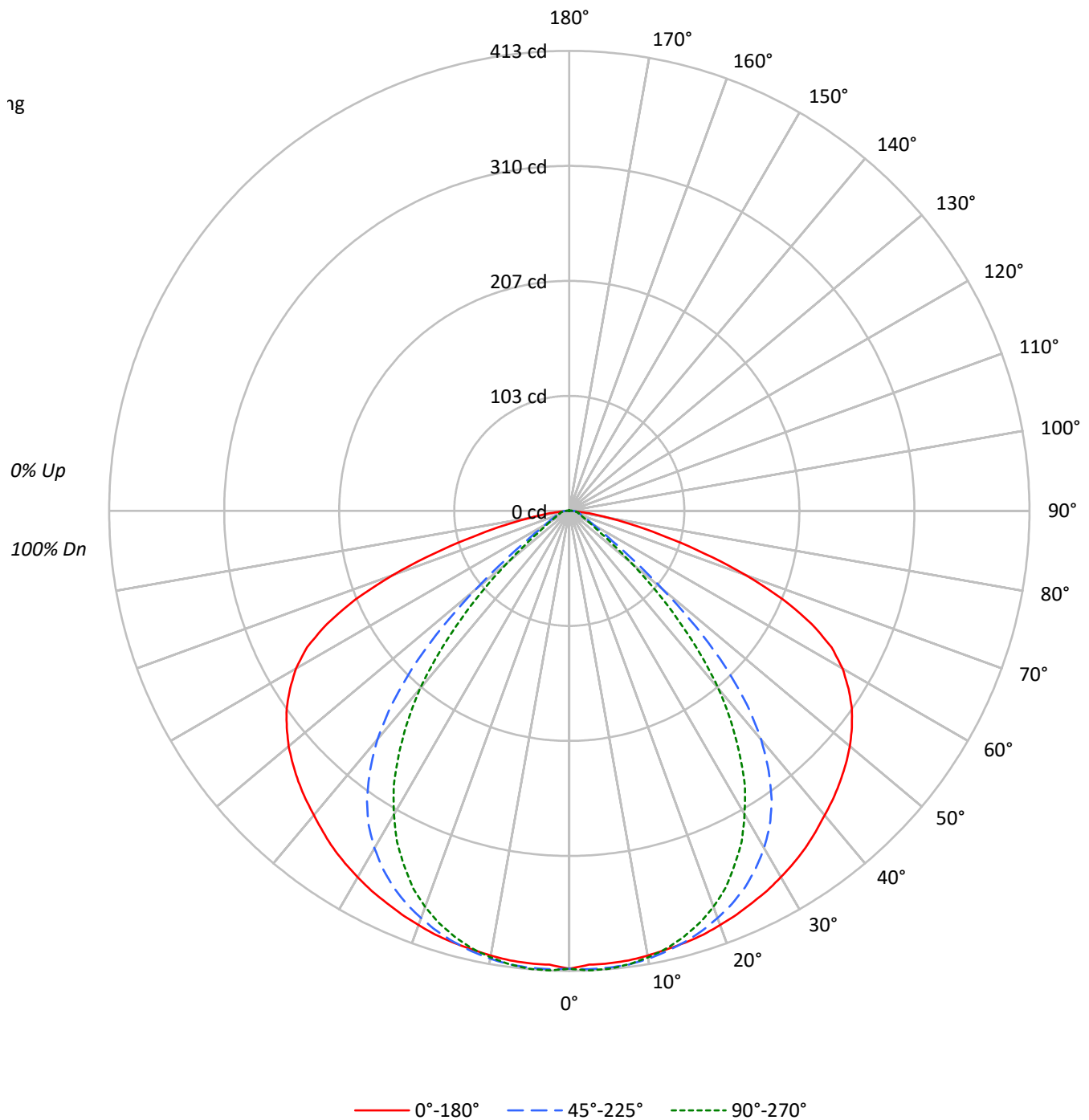
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 862.1 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.15 / 1.25
Luminous Opening: Rectangular (W 0.27' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 6.9
Input Voltage (V): 120
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	111	107	103	100	108	105	101	99	100	98	95	97	94	93	93	91	90	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	84	81	79	77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	76	72	69	76	72	69	67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	69	65	61	69	65	61	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	63	59	55	63	59	55	53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	46	40	36	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	33	43	37	33	43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8416	8416	8416
5°	8382	8460	8481
10°	8429	8490	8462
15°	8509	8492	8395
20°	8623	8477	8243
25°	8771	8427	7930
30°	8978	8268	7438
35°	9236	7917	6664
40°	9532	7161	5573
45°	9956	5742	3973
50°	10474	3491	2278
55°	11056	1685	1224
60°	11598	1032	835
65°	11619	829	688
70°	10058	754	641
75°	7081	760	696
80°	4174	920	884
85°	1950	1386	1316

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 11765 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	4.5
10°-20°	113.0	13.1
20°-30°	171.0	19.8
30°-40°	197.5	22.9
40°-50°	168.9	19.6
50°-60°	92.3	10.7
60°-70°	46.6	5.4
70°-80°	22.6	2.6
80°-90°	7.8	0.9
90°-100°	1.9	0.2
100°-110°	0.3	0.0
110°-120°	0.1	0.0
120°-130°	0.1	0.0
130°-140°	0.2	0.0
140°-150°	0.2	0.0
150°-160°	0.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	323.2	37.5
0°-40°	520.7	60.4
0°-60°	781.9	90.7
0°-90°	858.9	99.6
90°-120°	2.3	0.3
90°-150°	2.8	0.3
90°-180°	3.0	0.3
0°-180°	862.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	411	411	411	411	411	
5°	408	411	412	413	413	39
15°	401	404	401	399	396	114
25°	388	386	373	358	351	179
35°	370	357	317	280	267	231
45°	344	300	198	147	137	266
55°	310	142	47	37	34	276
65°	240	26	17	15	14	232
75°	90	15	10	9	9	99
85°	8	8	6	6	6	13
90°	0	5	4	4	4	0
95°	0	0	2	2	2	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	411.0	411.0	411.0	411.0	411.0
2.5°	407.8	410.7	411.8	413.7	412.9
5°	407.8	411.0	411.6	413.2	412.6
7.5°	407.0	409.9	410.7	411.6	410.5
10°	405.4	408.3	408.3	408.3	407.0
12.5°	403.2	406.5	404.9	403.8	402.4
15°	401.4	403.8	400.6	398.7	396.0
17.5°	399.0	400.8	395.5	391.7	388.2
20°	395.7	396.5	389.0	382.1	378.3
22.5°	392.3	391.5	381.8	371.6	366.5
25°	388.2	386.1	373.0	358.5	351.0
27.5°	384.5	379.9	362.2	342.7	334.9
30°	379.7	373.5	349.7	325.0	314.6
32.5°	374.8	365.7	334.9	304.9	293.4
35°	369.5	356.9	316.7	279.7	266.6
37.5°	363.1	345.9	293.9	252.4	238.5
40°	356.6	333.0	267.9	220.8	208.5
42.5°	350.5	318.6	236.1	185.4	173.4
45°	343.8	300.1	198.3	147.4	137.2
47.5°	336.5	274.6	154.6	111.7	103.2
50°	328.8	241.7	109.6	78.2	71.5
52.5°	319.6	196.1	72.3	52.8	48.5
55°	309.7	142.3	47.2	36.7	34.3
57.5°	297.1	92.7	33.2	27.3	25.5
60°	283.2	55.5	25.2	21.7	20.4
62.5°	265.3	35.9	20.4	18.2	16.6
65°	239.8	26.5	17.1	15.3	14.2
67.5°	207.7	22.0	14.5	13.1	12.1
70°	168.0	19.3	12.6	11.5	10.7
72.5°	127.0	16.9	11.0	10.2	9.6
75°	89.5	14.7	9.6	9.4	8.8
77.5°	58.7	12.9	8.8	8.6	8.3
80°	35.4	11.0	7.8	7.8	7.5
82.5°	19.8	9.6	7.0	7.0	6.4
85°	8.3	8.3	5.9	5.9	5.6
87.5°	2.4	6.4	4.8	4.8	4.3
90°	0.0	4.8	3.8	3.8	3.5
92.5°	0.0	2.7	2.7	2.9	2.7
95°	0.0	0.5	1.6	2.4	2.1
97.5°	0.0	0.3	1.1	1.9	1.6
100°	0.0	0.0	0.5	1.3	1.1
102.5°	0.0	0.0	0.3	0.8	0.8
105°	0.0	0.0	0.3	0.5	0.3
107.5°	0.0	0.0	0.3	0.3	0.3
110°	0.0	0.0	0.3	0.3	0.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.3	0.3	0.3
115°	0.0	0.0	0.0	0.3	0.3
117.5°	0.0	0.0	0.0	0.3	0.0
120°	0.0	0.0	0.0	0.3	0.0
122.5°	0.0	0.0	0.0	0.3	0.0
125°	0.0	0.0	0.3	0.3	0.0
127.5°	0.0	0.0	0.3	0.3	0.3
130°	0.0	0.0	0.3	0.3	0.3
132.5°	0.3	0.0	0.3	0.3	0.3
135°	0.3	0.3	0.3	0.3	0.3
137.5°	0.3	0.3	0.3	0.3	0.3
140°	0.3	0.3	0.3	0.3	0.3
142.5°	0.3	0.3	0.3	0.3	0.3
145°	0.3	0.3	0.3	0.3	0.3
147.5°	0.3	0.3	0.3	0.3	0.3
150°	0.3	0.3	0.3	0.3	0.3
152.5°	0.3	0.3	0.3	0.3	0.3
155°	0.3	0.3	0.3	0.5	0.3
157.5°	0.3	0.3	0.3	0.5	0.3
160°	0.3	0.3	0.3	0.5	0.3
162.5°	0.3	0.3	0.5	0.5	0.5
165°	0.3	0.3	0.5	0.5	0.5
167.5°	0.3	0.3	0.5	0.5	0.5
170°	0.3	0.3	0.5	0.5	0.5
172.5°	0.3	0.3	0.5	0.5	0.5
175°	0.3	0.3	0.5	0.5	0.5
177.5°	0.3	0.3	0.5	0.5	0.5
180°	0.5	0.5	0.5	0.5	0.5



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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	17.57	18.98	17.94	19.30	19.63	6.69	8.10	7.06	8.42	8.74
	3H	20.35	21.61	20.74	21.94	22.32	7.69	8.95	8.08	9.28	9.66
	4H	21.18	22.35	21.59	22.71	23.10	8.24	9.42	8.65	9.78	10.17
	6H	21.58	22.66	22.00	23.03	23.44	8.95	10.03	9.37	10.40	10.80
	8H	21.65	22.68	22.09	23.07	23.49	9.32	10.34	9.75	10.74	11.15
	12H	21.67	22.65	22.11	23.04	23.48	9.73	10.72	10.17	11.11	11.54
4H	2H	17.39	18.56	17.80	18.92	19.31	7.12	8.29	7.52	8.65	9.04
	3H	20.18	21.15	20.60	21.55	21.97	8.39	9.36	8.81	9.77	10.18
	4H	21.02	21.88	21.46	22.30	22.75	9.13	9.99	9.57	10.42	10.87
	6H	21.49	22.24	21.96	22.69	23.16	10.05	10.79	10.51	11.24	11.72
	8H	21.60	22.30	22.07	22.75	23.23	10.53	11.23	11.00	11.68	12.16
	12H	21.65	22.27	22.14	22.76	23.24	11.07	11.69	11.56	12.18	12.66
8H	4H	20.91	21.61	21.38	22.06	22.54	9.57	10.27	10.04	10.72	11.20
	6H	21.38	21.96	21.89	22.46	22.95	10.69	11.27	11.20	11.77	12.25
	8H	21.52	22.03	22.04	22.55	23.05	11.34	11.85	11.86	12.37	12.87
	12H	21.61	22.07	22.13	22.57	23.15	12.07	12.53	12.59	13.03	13.61
12H	4H	20.87	21.49	21.36	21.98	22.46	9.73	10.35	10.22	10.84	11.32
	6H	21.33	21.85	21.86	22.37	22.87	10.90	11.42	11.43	11.94	12.44
	8H	21.49	21.95	22.01	22.45	23.03	11.64	12.10	12.16	12.61	13.18