

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: P892888

Luminaire Tested: 2MB-SC3-A-UNV-CC83-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892888
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-CC83-LOW-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTIC, 80CRI, 3500K CCT, LOW lumen settir
Light Source: -
Ballast/Driver: -

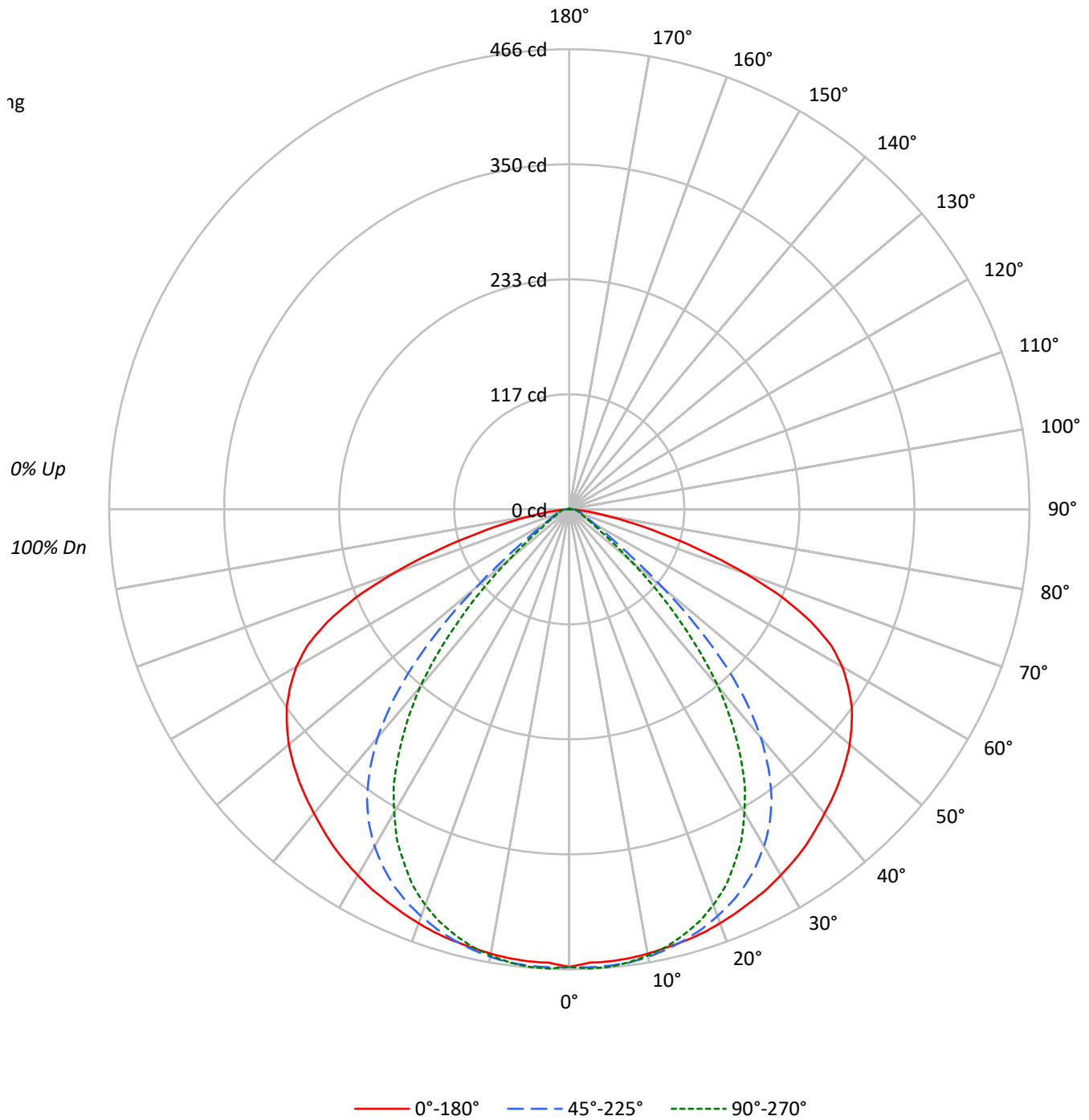
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 972.0 lumens
Efficiency: N/A
Efficacy: 140.9 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	73	69	76	73	69	67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	70	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°	9491	9491	9491
5°	9451	9539	9564
10°	9504	9573	9542
15°	9595	9576	9465
20°	9723	9560	9296
25°	9891	9503	8942
30°	10122	9323	8387
35°	10414	8926	7514
40°	10748	8075	6284
45°	11224	6475	4480
50°	11809	3937	2571
55°	12470	1899	1382
60°	13076	1163	942
65°	13101	935	775
70°	11339	850	724
75°	7983	862	791
80°	4705	1038	1002
85°	2208	1551	1480

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 13264 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.2	4.5
10°-20°	127.4	13.1
20°-30°	192.9	19.8
30°-40°	222.7	22.9
40°-50°	190.5	19.6
50°-60°	104.0	10.7
60°-70°	52.5	5.4
70°-80°	25.5	2.6
80°-90°	8.8	0.9
90°-100°	2.1	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°	364.5	37.5
0°-40°	587.2	60.4
0°-60°	881.7	90.7
0°-90°	968.6	99.6
90°-120°	2.6	0.3
90°-150°	3.1	0.3
90°-180°	3.0	0.3
0°-180°	972.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	464	464	464	464	464	
5°	460	464	464	466	465	44
15°	453	455	452	450	446	128
25°	438	435	421	404	396	202
35°	417	402	357	315	301	261
45°	388	338	224	166	155	300
55°	349	160	53	41	39	311
65°	270	30	19	17	16	262
75°	101	17	11	11	10	112
85°	9	9	7	7	6	14
90°	0	5	4	4	4	0
95°	0	1	2	3	2	0
105°	0	0	0	1	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	1	0	0
165°	0	0	1	1	1	0
175°	0	0	1	1	1	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	463.5	463.5	463.5	463.5	463.5
2.5°	459.8	463.2	464.4	466.5	465.6
5°	459.8	463.5	464.1	465.9	465.3
7.5°	458.9	462.3	463.2	464.1	462.9
10°	457.1	460.4	460.4	460.4	458.9
12.5°	454.7	458.3	456.5	455.3	453.8
15°	452.6	455.3	451.7	449.6	446.5
17.5°	449.9	452.0	445.9	441.7	437.8
20°	446.2	447.1	438.7	430.8	426.6
22.5°	442.3	441.4	430.5	419.1	413.3
25°	437.8	435.4	420.6	404.2	395.8
27.5°	433.6	428.4	408.5	386.4	377.7
30°	428.1	421.2	394.3	366.5	354.7
32.5°	422.7	412.4	377.7	343.8	330.8
35°	416.6	402.4	357.1	315.4	300.6
37.5°	409.4	390.0	331.4	284.6	268.9
40°	402.1	375.5	302.1	249.0	235.1
42.5°	395.2	359.2	266.2	209.1	195.5
45°	387.6	338.4	223.6	166.2	154.7
47.5°	379.5	309.7	174.3	126.0	116.3
50°	370.7	272.5	123.6	88.2	80.7
52.5°	360.4	221.2	81.6	59.5	54.7
55°	349.3	160.4	53.2	41.4	38.7
57.5°	335.1	104.5	37.5	30.8	28.7
60°	319.3	62.5	28.4	24.5	23.0
62.5°	299.1	40.5	23.0	20.5	18.7
65°	270.4	29.9	19.3	17.2	16.0
67.5°	234.1	24.8	16.3	14.8	13.6
70°	189.4	21.8	14.2	13.0	12.1
72.5°	143.2	19.0	12.4	11.5	10.9
75°	100.9	16.6	10.9	10.6	10.0
77.5°	66.2	14.5	10.0	9.7	9.4
80°	39.9	12.4	8.8	8.8	8.5
82.5°	22.4	10.9	7.9	7.9	7.3
85°	9.4	9.4	6.6	6.6	6.3
87.5°	2.7	7.3	5.4	5.4	4.8
90°	0.0	5.4	4.2	4.2	3.9
92.5°	0.0	3.0	3.0	3.3	3.0
95°	0.0	0.6	1.8	2.7	2.4
97.5°	0.0	0.3	1.2	2.1	1.8
100°	0.0	0.0	0.6	1.5	1.2
102.5°	0.0	0.0	0.3	0.9	0.9
105°	0.0	0.0	0.3	0.6	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	0.6	0.3
157.5°	0.3	0.3	0.3	0.6	0.3
160°	0.3	0.3	0.3	0.6	0.3
162.5°	0.3	0.3	0.6	0.6	0.6
165°	0.3	0.3	0.6	0.6	0.6
167.5°	0.3	0.3	0.6	0.6	0.6
170°	0.3	0.3	0.6	0.6	0.6
172.5°	0.3	0.3	0.6	0.6	0.6
175°	0.3	0.3	0.6	0.6	0.6
177.5°	0.3	0.3	0.6	0.6	0.6
180°	0.6	0.6	0.6	0.6	0.6



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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	17.99	19.40	18.36	19.72	20.04	7.10	8.52	7.48	8.84	9.16
	3H	20.77	22.02	21.15	22.36	22.73	8.11	9.37	8.50	9.70	10.08
	4H	21.60	22.77	22.01	23.13	23.52	8.67	9.84	9.08	10.20	10.59
	6H	21.99	23.07	22.41	23.45	23.85	9.37	10.45	9.79	10.83	11.23
	8H	22.07	23.09	22.50	23.49	23.90	9.75	10.78	10.19	11.18	11.59
	12H	22.09	23.07	22.52	23.46	23.89	10.17	11.15	10.61	11.54	11.98
4H	2H	17.81	18.98	18.21	19.34	19.73	7.54	8.71	7.94	9.07	9.46
	3H	20.60	21.56	21.02	21.97	22.38	8.81	9.78	9.23	10.19	10.60
	4H	21.43	22.30	21.87	22.72	23.17	9.55	10.42	9.99	10.84	11.29
	6H	21.91	22.65	22.37	23.10	23.58	10.47	11.22	10.94	11.67	12.14
	8H	22.02	22.72	22.49	23.17	23.65	10.96	11.66	11.43	12.11	12.59
	12H	22.07	22.69	22.56	23.18	23.66	11.50	12.12	11.99	12.61	13.09
8H	4H	21.33	22.02	21.80	22.48	22.96	9.99	10.69	10.47	11.15	11.62
	6H	21.80	22.38	22.31	22.88	23.36	11.12	11.69	11.62	12.20	12.68
	8H	21.93	22.45	22.46	22.97	23.47	11.77	12.29	12.29	12.80	13.30
	12H	22.03	22.49	22.55	22.99	23.57	12.50	12.96	13.02	13.46	14.04
12H	4H	21.29	21.91	21.78	22.40	22.88	10.16	10.78	10.65	11.27	11.75
	6H	21.75	22.27	22.28	22.79	23.29	11.33	11.85	11.86	12.37	12.87
	8H	21.91	22.37	22.43	22.87	23.45	12.07	12.54	12.59	13.04	13.61