

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: P892900

Luminaire Tested: 2MB-SC3-A-UNV-CC93-MID-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892900
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-MID-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTIC, 90CRI, 3500K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

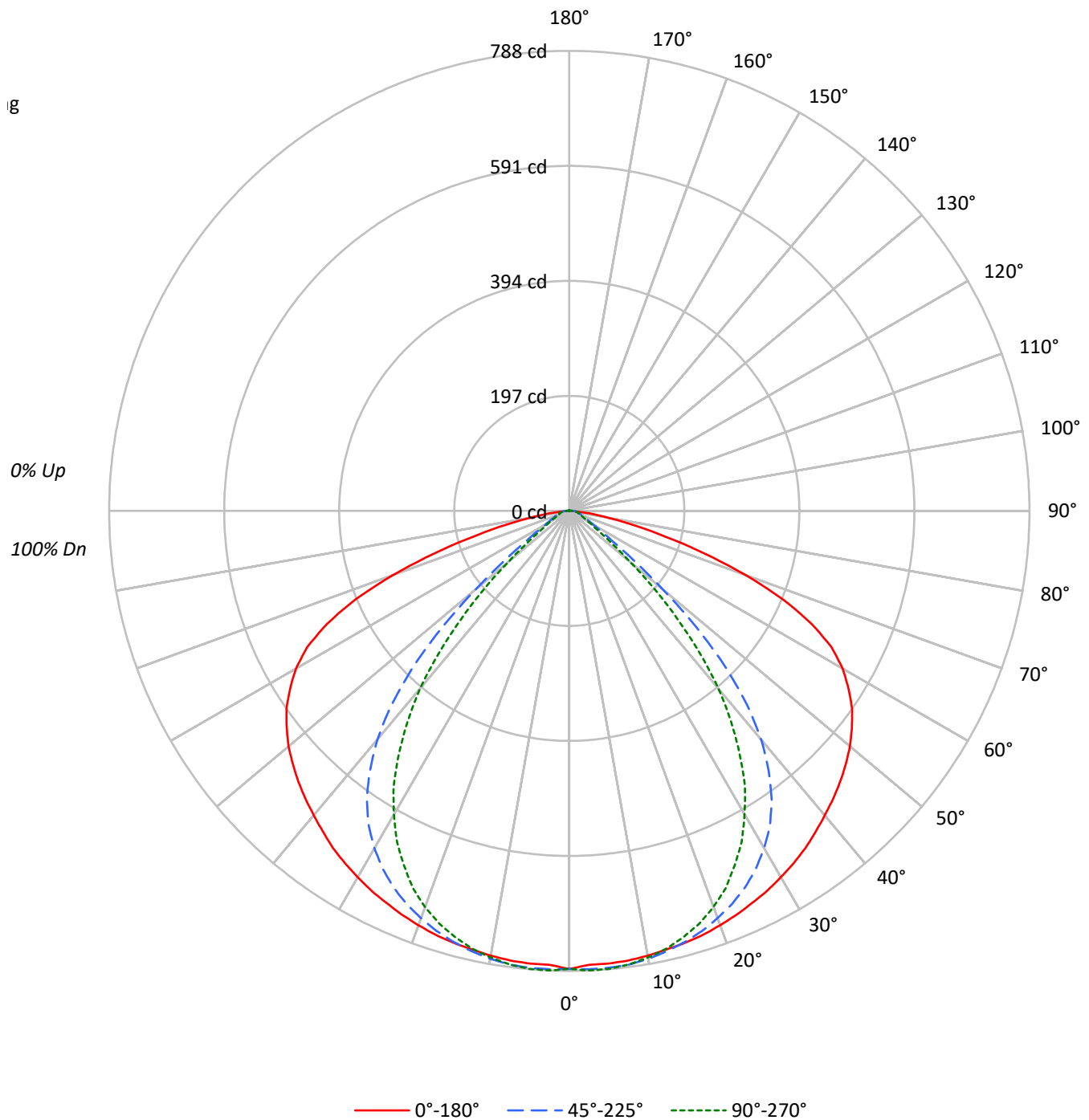
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1644.9 lumens
Efficiency: N/A
Efficacy: 118.3 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): 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: P892900
CATALOG NUMBER: 2MB-SC3-A-UNV-CC93-MID-3500K

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°	16062	16062	16062
5°	15996	16144	16185
10°	16085	16201	16149
15°	16238	16204	16020
20°	16456	16177	15733
25°	16739	16082	15133
30°	17130	15778	14194
35°	17626	15108	12719
40°	18193	13667	10633
45°	18997	10958	7581
50°	19986	6661	4348
55°	21102	3213	2335
60°	22135	1970	1593
65°	22171	1584	1313
70°	19194	1437	1227
75°	13513	1456	1337
80°	7960	1745	1686
85°	3736	2631	2514

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 22448 cd/sqm



TEST NUMBER: P892900
 CATALOG NUMBER: 2MB-SC3-A-UNV-CC93-MID-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	4.5
10°-20°	215.7	13.1
20°-30°	326.4	19.8
30°-40°	377.0	22.9
40°-50°	322.4	19.6
50°-60°	176.1	10.7
60°-70°	88.9	5.4
70°-80°	43.2	2.6
80°-90°	14.8	0.9
90°-100°	3.6	0.2
100°-110°	0.6	0.0
110°-120°	0.2	0.0
120°-130°	0.2	0.0
130°-140°	0.3	0.0
140°-150°	0.3	0.0
150°-160°	0.3	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	616.8	37.5
0°-40°	993.8	60.4
0°-60°	1492.2	90.7
0°-90°	1639.2	99.6
90°-120°	4.4	0.3
90°-150°	5.2	0.3
90°-180°	6.0	0.4
0°-180°	1644.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	784	784	784	784	784	
5°	778	784	785	788	787	74
15°	766	771	764	761	756	217
25°	741	737	712	684	670	342
35°	705	681	604	534	509	442
45°	656	573	378	281	262	507
55°	591	272	90	70	65	527
65°	458	51	33	29	27	443
75°	171	28	18	18	17	189
85°	16	16	11	11	11	24
90°	0	9	7	7	7	1
95°	0	1	3	5	4	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°	784.4	784.4	784.4	784.4	784.4
2.5°	778.2	783.8	785.9	789.5	787.9
5°	778.2	784.4	785.4	788.5	787.4
7.5°	776.7	782.3	783.8	785.4	783.3
10°	773.6	779.2	779.2	779.2	776.7
12.5°	769.5	775.7	772.6	770.6	768.0
15°	766.0	770.6	764.4	760.8	755.7
17.5°	761.4	764.9	754.7	747.5	740.9
20°	755.2	756.7	742.4	729.1	722.0
22.5°	748.6	747.0	728.6	709.2	699.5
25°	740.9	736.8	711.8	684.1	669.8
27.5°	733.7	725.0	691.3	654.0	639.1
30°	724.5	712.8	667.3	620.2	600.3
32.5°	715.3	697.9	639.1	581.9	559.9
35°	705.1	681.1	604.4	533.8	508.8
37.5°	692.8	660.1	560.9	481.7	455.1
40°	680.6	635.6	511.3	421.3	397.8
42.5°	668.8	608.0	450.5	353.8	330.8
45°	656.0	572.7	378.4	281.2	261.8
47.5°	642.2	524.1	295.0	213.2	196.9
50°	627.4	461.2	209.1	149.3	136.5
52.5°	610.0	374.3	138.1	100.7	92.5
55°	591.1	271.5	90.0	70.1	65.4
57.5°	567.1	176.9	63.4	52.2	48.6
60°	540.5	105.8	48.1	41.4	38.9
62.5°	506.2	68.5	38.9	34.8	31.7
65°	457.6	50.6	32.7	29.1	27.1
67.5°	396.3	41.9	27.6	25.1	23.0
70°	320.6	36.8	24.0	22.0	20.5
72.5°	242.4	32.2	21.0	19.4	18.4
75°	170.8	28.1	18.4	17.9	16.9
77.5°	112.0	24.5	16.9	16.4	15.9
80°	67.5	21.0	14.8	14.8	14.3
82.5°	37.8	18.4	13.3	13.3	12.3
85°	15.9	15.9	11.2	11.2	10.7
87.5°	4.6	12.3	9.2	9.2	8.2
90°	0.0	9.2	7.2	7.2	6.6
92.5°	0.0	5.1	5.1	5.6	5.1
95°	0.0	1.0	3.1	4.6	4.1
97.5°	0.0	0.5	2.0	3.6	3.1
100°	0.0	0.0	1.0	2.6	2.0
102.5°	0.0	0.0	0.5	1.5	1.5
105°	0.0	0.0	0.5	1.0	0.5
107.5°	0.0	0.0	0.5	0.5	0.5
110°	0.0	0.0	0.5	0.5	0.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.5	0.5	0.5
115°	0.0	0.0	0.0	0.5	0.5
117.5°	0.0	0.0	0.0	0.5	0.0
120°	0.0	0.0	0.0	0.5	0.0
122.5°	0.0	0.0	0.0	0.5	0.0
125°	0.0	0.0	0.5	0.5	0.0
127.5°	0.0	0.0	0.5	0.5	0.5
130°	0.0	0.0	0.5	0.5	0.5
132.5°	0.5	0.0	0.5	0.5	0.5
135°	0.5	0.5	0.5	0.5	0.5
137.5°	0.5	0.5	0.5	0.5	0.5
140°	0.5	0.5	0.5	0.5	0.5
142.5°	0.5	0.5	0.5	0.5	0.5
145°	0.5	0.5	0.5	0.5	0.5
147.5°	0.5	0.5	0.5	0.5	0.5
150°	0.5	0.5	0.5	0.5	0.5
152.5°	0.5	0.5	0.5	0.5	0.5
155°	0.5	0.5	0.5	1.0	0.5
157.5°	0.5	0.5	0.5	1.0	0.5
160°	0.5	0.5	0.5	1.0	0.5
162.5°	0.5	0.5	1.0	1.0	1.0
165°	0.5	0.5	1.0	1.0	1.0
167.5°	0.5	0.5	1.0	1.0	1.0
170°	0.5	0.5	1.0	1.0	1.0
172.5°	0.5	0.5	1.0	1.0	1.0
175°	0.5	0.5	1.0	1.0	1.0
177.5°	0.5	0.5	1.0	1.0	1.0
180°	1.0	1.0	1.0	1.0	1.0



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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	19.82	21.23	20.19	21.55	21.87	8.94	10.35	9.31	10.67	11.00
	3H	22.60	23.85	22.98	24.19	24.56	9.95	11.20	10.33	11.54	11.91
	4H	23.43	24.60	23.84	24.96	25.35	10.50	11.67	10.91	12.03	12.42
	6H	23.82	24.90	24.24	25.28	25.68	11.20	12.28	11.62	12.66	13.06
	8H	23.90	24.92	24.33	25.32	25.73	11.58	12.60	12.01	13.00	13.41
	12H	23.91	24.89	24.35	25.28	25.72	11.99	12.97	12.43	13.36	13.80
4H	2H	19.64	20.81	20.04	21.17	21.56	9.37	10.55	9.78	10.90	11.29
	3H	22.43	23.39	22.85	23.80	24.21	10.65	11.61	11.07	12.02	12.43
	4H	23.26	24.12	23.70	24.55	25.00	11.38	12.24	11.82	12.67	13.12
	6H	23.73	24.48	24.20	24.93	25.41	12.30	13.04	12.76	13.49	13.97
	8H	23.85	24.54	24.32	25.00	25.47	12.78	13.48	13.25	13.93	14.41
	12H	23.90	24.52	24.39	25.01	25.49	13.32	13.94	13.81	14.43	14.91
8H	4H	23.16	23.85	23.63	24.31	24.78	11.82	12.52	12.29	12.97	13.45
	6H	23.63	24.20	24.13	24.71	25.19	12.94	13.51	13.44	14.01	14.50
	8H	23.76	24.28	24.28	24.80	25.30	13.58	14.10	14.11	14.62	15.12
	12H	23.86	24.32	24.38	24.82	25.39	14.32	14.78	14.84	15.28	15.86
12H	4H	23.12	23.74	23.61	24.23	24.71	11.99	12.61	12.48	13.10	13.58
	6H	23.58	24.10	24.10	24.62	25.12	13.15	13.67	13.67	14.19	14.69
	8H	23.74	24.20	24.26	24.70	25.28	13.89	14.35	14.41	14.85	15.43