

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: P892892

Luminaire Tested: 2MB-SC3-A-UNV-CC83-MID-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892892
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-MID-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTIC, 80CRI, 4000K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

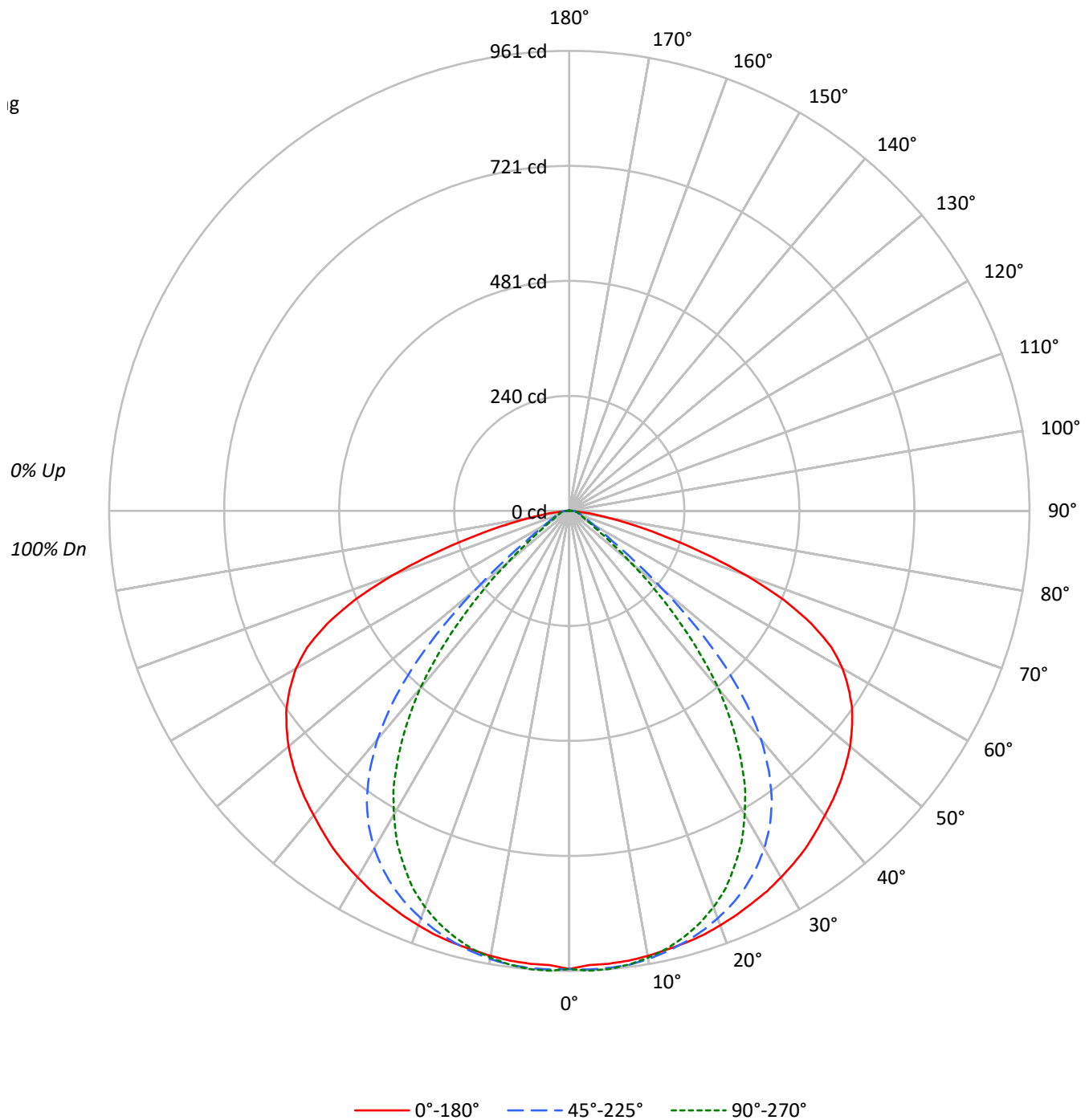
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2006.9 lumens
Efficiency: N/A
Efficacy: 144.4 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

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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	90	90	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	79	79	79	77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	76	73	69	69	69	69	67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	61	61	61	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	63	59	55	55	55	55	53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	49	49	49	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	44	44	44	42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	40	40	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	36	36	36	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	33	43	37	33	33	33	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19596	19596	19596
5°	19517	19696	19747
10°	19626	19767	19703
15°	19810	19770	19545
20°	20078	19738	19195
25°	20422	19620	18463
30°	20901	19249	17317
35°	21505	18433	15516
40°	22194	16674	12972
45°	23178	13367	9249
50°	24382	8126	5307
55°	25747	3920	2852
60°	27004	2400	1941
65°	27050	1933	1604
70°	23415	1754	1497
75°	16488	1780	1630
80°	9705	2134	2064
85°	4534	3219	3078

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 27388 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	4.5
10°-20°	263.1	13.1
20°-30°	398.2	19.8
30°-40°	459.9	22.9
40°-50°	393.3	19.6
50°-60°	214.8	10.7
60°-70°	108.5	5.4
70°-80°	52.7	2.6
80°-90°	18.1	0.9
90°-100°	4.4	0.2
100°-110°	0.7	0.0
110°-120°	0.3	0.0
120°-130°	0.2	0.0
130°-140°	0.4	0.0
140°-150°	0.4	0.0
150°-160°	0.3	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	752.5	37.5
0°-40°	1212.5	60.4
0°-60°	1820.6	90.7
0°-90°	1999.8	99.6
90°-120°	5.3	0.3
90°-150°	6.3	0.3
90°-180°	7.0	0.3
0°-180°	2006.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	957	957	957	957	957	
5°	950	957	958	962	961	90
15°	934	940	933	928	922	264
25°	904	899	868	835	817	418
35°	860	831	737	651	621	539
45°	800	699	462	343	319	618
55°	721	331	110	86	80	643
65°	558	62	40	36	33	540
75°	208	34	22	22	21	231
85°	19	19	14	14	13	30
90°	0	11	9	9	8	1
95°	0	1	4	6	5	0
105°	0	0	1	1	1	0
115°	0	0	0	1	1	0
125°	0	0	1	1	0	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	957.0	957.0	957.0	957.0	957.0
2.5°	949.5	956.3	958.8	963.2	961.3
5°	949.5	957.0	958.2	962.0	960.7
7.5°	947.6	954.5	956.3	958.2	955.7
10°	943.9	950.7	950.7	950.7	947.6
12.5°	938.9	946.4	942.6	940.1	937.0
15°	934.5	940.1	932.6	928.3	922.0
17.5°	928.9	933.3	920.8	912.1	903.9
20°	921.4	923.3	905.8	889.6	880.9
22.5°	913.3	911.4	889.0	865.3	853.4
25°	903.9	899.0	868.4	834.7	817.2
27.5°	895.2	884.6	843.4	797.9	779.8
30°	884.0	869.6	814.1	756.7	732.4
32.5°	872.7	851.5	779.8	709.9	683.1
35°	860.3	831.0	737.4	651.3	620.7
37.5°	845.3	805.4	684.3	587.7	555.2
40°	830.3	775.4	623.8	514.0	485.3
42.5°	816.0	741.7	549.6	431.7	403.6
45°	800.4	698.7	461.6	343.1	319.4
47.5°	783.5	639.4	360.0	260.1	240.2
50°	765.4	562.7	255.1	182.2	166.6
52.5°	744.2	456.6	168.4	122.9	112.9
55°	721.2	331.3	109.8	85.5	79.9
57.5°	691.8	215.8	77.4	63.6	59.3
60°	659.4	129.1	58.6	50.5	47.4
62.5°	617.6	83.6	47.4	42.4	38.7
65°	558.3	61.8	39.9	35.6	33.1
67.5°	483.5	51.2	33.7	30.6	28.1
70°	391.1	44.9	29.3	26.8	25.0
72.5°	295.7	39.3	25.6	23.7	22.5
75°	208.4	34.3	22.5	21.8	20.6
77.5°	136.6	29.9	20.6	20.0	19.3
80°	82.3	25.6	18.1	18.1	17.5
82.5°	46.2	22.5	16.2	16.2	15.0
85°	19.3	19.3	13.7	13.7	13.1
87.5°	5.6	15.0	11.2	11.2	10.0
90°	0.0	11.2	8.7	8.7	8.1
92.5°	0.0	6.2	6.2	6.9	6.2
95°	0.0	1.2	3.7	5.6	5.0
97.5°	0.0	0.6	2.5	4.4	3.7
100°	0.0	0.0	1.2	3.1	2.5
102.5°	0.0	0.0	0.6	1.9	1.9
105°	0.0	0.0	0.6	1.2	0.6
107.5°	0.0	0.0	0.6	0.6	0.6
110°	0.0	0.0	0.6	0.6	0.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.6	0.6	0.6
115°	0.0	0.0	0.0	0.6	0.6
117.5°	0.0	0.0	0.0	0.6	0.0
120°	0.0	0.0	0.0	0.6	0.0
122.5°	0.0	0.0	0.0	0.6	0.0
125°	0.0	0.0	0.6	0.6	0.0
127.5°	0.0	0.0	0.6	0.6	0.6
130°	0.0	0.0	0.6	0.6	0.6
132.5°	0.6	0.0	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	1.2	0.6
157.5°	0.6	0.6	0.6	1.2	0.6
160°	0.6	0.6	0.6	1.2	0.6
162.5°	0.6	0.6	1.2	1.2	1.2
165°	0.6	0.6	1.2	1.2	1.2
167.5°	0.6	0.6	1.2	1.2	1.2
170°	0.6	0.6	1.2	1.2	1.2
172.5°	0.6	0.6	1.2	1.2	1.2
175°	0.6	0.6	1.2	1.2	1.2
177.5°	0.6	0.6	1.2	1.2	1.2
180°	1.2	1.2	1.2	1.2	1.2



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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	20.51	21.92	20.88	22.24	22.56	9.62	11.04	10.00	11.36	11.68
	3H	23.29	24.54	23.67	24.88	25.25	10.63	11.89	11.02	12.23	12.60
	4H	24.12	25.29	24.53	25.65	26.04	11.19	12.36	11.60	12.72	13.11
	6H	24.51	25.59	24.93	25.97	26.37	11.89	12.97	12.31	13.34	13.75
	8H	24.59	25.61	25.02	26.01	26.42	12.26	13.29	12.70	13.69	14.10
	12H	24.60	25.59	25.04	25.98	26.41	12.68	13.66	13.12	14.05	14.49
4H	2H	20.33	21.50	20.73	21.86	22.25	10.06	11.23	10.47	11.59	11.98
	3H	23.12	24.08	23.54	24.49	24.90	11.33	12.30	11.75	12.71	13.12
	4H	23.95	24.82	24.39	25.24	25.69	12.07	12.93	12.51	13.36	13.81
	6H	24.43	25.17	24.89	25.62	26.10	12.98	13.73	13.45	14.18	14.65
	8H	24.54	25.23	25.01	25.69	26.17	13.47	14.17	13.94	14.62	15.10
	12H	24.59	25.21	25.08	25.70	26.18	14.01	14.63	14.50	15.12	15.60
8H	4H	23.85	24.54	24.32	25.00	25.47	12.51	13.21	12.98	13.66	14.14
	6H	24.32	24.90	24.83	25.40	25.88	13.63	14.20	14.13	14.70	15.19
	8H	24.45	24.97	24.98	25.49	25.99	14.27	14.79	14.79	15.31	15.81
	12H	24.55	25.01	25.07	25.51	26.08	15.01	15.47	15.53	15.97	16.55
12H	4H	23.81	24.43	24.30	24.92	25.40	12.67	13.30	13.17	13.78	14.26
	6H	24.27	24.79	24.79	25.31	25.81	13.84	14.36	14.36	14.88	15.38
	8H	24.43	24.89	24.95	25.39	25.97	14.58	15.04	15.10	15.54	16.11