

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: P895780

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

Issue Date: 11/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P895780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-ACL-UNV-CC83-MID-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 80CRI, 4000K CC
MID lumen setting
Light Source: -
Ballast/Driver: -

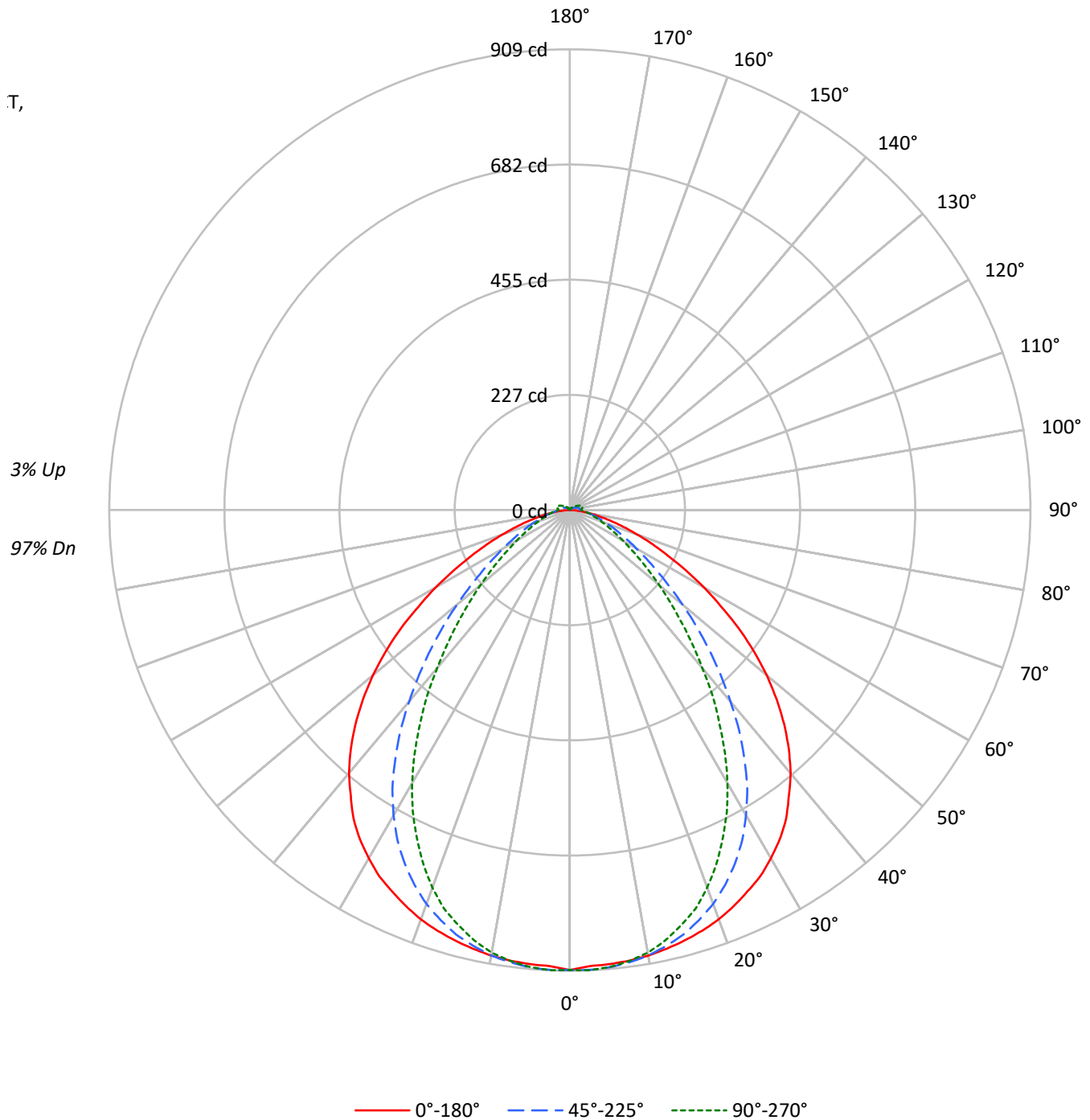
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1891.0 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.07 / 1.17
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 1.98' x H: 0.08')
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: P895780
CATALOG NUMBER: 2MB-SC3-ACL-UNV-CC83-MID-4000K

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	110	105	102	98	107	103	100	97	98	96	93	94	92	90	90	88	87	87	87	87	84
2	101	94	88	83	98	92	86	82	88	83	80	84	81	77	81	78	75	75	75	75	73
3	93	84	77	71	91	82	76	70	79	73	69	76	71	67	73	69	66	66	66	66	64
4	86	76	68	62	84	74	67	61	71	65	60	69	63	59	66	62	58	58	58	58	56
5	80	68	60	54	78	67	60	54	65	58	53	63	57	52	61	56	52	52	52	52	50
6	74	62	54	48	72	61	54	48	59	52	47	57	51	47	56	50	46	46	46	46	44
7	69	57	49	43	68	56	49	43	54	48	43	53	47	42	51	46	42	42	42	42	40
8	65	52	45	39	63	52	44	39	50	43	39	49	43	38	47	42	38	38	38	38	36
9	61	48	41	36	59	48	40	35	46	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	38	33	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18582	18582	18582
5°	18419	18216	18105
10°	18423	17771	17474
15°	18422	17219	16589
20°	18446	16512	15506
25°	18396	15577	14078
30°	18314	14359	12462
35°	18068	12767	10560
40°	17505	10890	8606
45°	16623	8962	6821
50°	15382	7125	5322
55°	13696	5537	4123
60°	11665	4325	3227
65°	9537	3437	2567
70°	7567	2783	2106
75°	5846	2265	1841
80°	4160	1910	1668
85°	2379	1661	1502

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16623 cd/sqm



TEST NUMBER: P895780

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	4.5
10°-20°	243.9	12.9
20°-30°	354.5	18.7
30°-40°	383.2	20.3
40°-50°	323.3	17.1
50°-60°	221.5	11.7
60°-70°	129.1	6.8
70°-80°	65.9	3.5
80°-90°	28.4	1.5
90°-100°	17.3	0.9
100°-110°	15.4	0.8
110°-120°	10.5	0.6
120°-130°	5.9	0.3
130°-140°	3.2	0.2
140°-150°	1.7	0.1
150°-160°	0.9	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	684.3	36.2
0°-40°	1067.5	56.5
0°-60°	1612.2	85.3
0°-90°	1835.7	97.1
90°-120°	43.1	2.3
90°-150°	53.9	2.9
90°-180°	55.0	2.9
0°-180°	1891.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	899	905	906	908	905	86
15°	879	878	867	856	848	248
25°	830	814	770	732	714	383
35°	744	696	601	536	515	464
45°	598	506	387	328	309	460
55°	407	308	211	176	167	362
65°	215	158	109	93	89	216
75°	86	70	56	52	50	93
85°	15	21	27	29	29	18
90°	1	9	20	22	22	1
95°	0	9	19	23	24	0
105°	0	5	17	24	26	0
115°	0	3	11	18	21	0
125°	0	2	6	11	12	0
135°	1	2	4	6	8	0
145°	1	1	3	4	4	0
155°	1	1	2	2	3	0
165°	1	1	1	2	2	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°	907.5	907.5	907.5	907.5	907.5
2.5°	900.7	906.3	908.2	910.6	908.8
5°	899.4	905.0	905.7	907.5	905.0
7.5°	896.9	901.3	900.0	900.0	897.5
10°	892.6	895.1	892.6	889.4	886.9
12.5°	886.3	888.2	880.7	876.3	870.1
15°	878.8	878.2	867.0	856.4	848.3
17.5°	870.1	865.7	848.3	832.1	825.2
20°	859.5	851.4	827.1	803.4	792.8
22.5°	845.8	834.6	800.9	770.3	756.0
25°	830.2	814.0	770.3	732.3	714.2
27.5°	814.6	790.3	736.0	688.6	671.1
30°	793.4	762.8	695.5	641.8	622.5
32.5°	770.9	732.3	651.8	589.4	570.1
35°	744.1	696.1	600.7	536.4	515.2
37.5°	710.4	653.7	548.9	481.5	463.4
40°	678.0	607.5	493.4	426.6	406.7
42.5°	639.9	557.6	439.7	374.9	356.8
45°	598.2	505.8	387.3	327.5	309.4
47.5°	553.9	456.6	337.4	281.9	267.6
50°	507.1	406.0	290.7	242.6	229.5
52.5°	457.2	355.5	247.6	207.7	195.9
55°	406.7	308.1	210.8	176.5	167.2
57.5°	353.7	262.6	179.6	150.3	141.6
60°	305.6	224.5	151.6	128.5	121.6
62.5°	258.2	189.6	129.1	109.2	103.5
65°	214.6	157.8	109.2	92.9	88.6
67.5°	176.5	132.2	93.6	79.8	76.7
70°	141.0	107.9	78.6	68.6	65.5
72.5°	111.0	87.3	66.1	59.3	57.4
75°	85.5	69.9	55.5	51.8	50.5
77.5°	62.4	53.6	46.8	44.9	44.3
80°	43.7	40.5	39.3	39.3	39.3
82.5°	27.4	29.9	33.1	34.3	34.3
85°	15.0	20.6	27.4	29.3	29.3
87.5°	6.2	14.3	23.1	24.9	24.3
90°	0.6	9.4	20.0	22.5	22.5
92.5°	0.0	9.4	20.0	22.5	22.5
95°	0.0	8.7	19.3	23.1	23.7
97.5°	0.0	8.1	19.3	23.7	24.3
100°	0.6	7.5	19.3	24.3	24.9
102.5°	0.0	6.2	18.1	24.3	25.6
105°	0.0	5.0	16.8	24.3	25.6
107.5°	0.0	3.7	15.6	23.1	24.9
110°	0.0	3.7	14.3	21.8	23.7



TEST NUMBER: P895780

CATALOG NUMBER: 2MB-SC3-ACL-UNV-CC83-MID-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.1	12.5	20.0	22.5
115°	0.0	3.1	10.6	18.1	20.6
117.5°	0.0	2.5	9.4	16.2	18.1
120°	0.0	2.5	8.1	14.3	16.2
122.5°	0.0	2.5	7.5	12.5	14.3
125°	0.0	1.9	6.2	10.6	12.5
127.5°	0.6	1.9	5.6	9.4	11.2
130°	0.6	1.9	5.0	8.1	10.0
132.5°	0.6	1.9	4.4	7.5	8.7
135°	0.6	1.9	4.4	6.2	7.5
137.5°	0.6	1.9	3.7	5.6	6.2
140°	0.6	1.9	3.1	5.0	5.6
142.5°	0.6	1.2	3.1	4.4	5.0
145°	0.6	1.2	3.1	3.7	4.4
147.5°	0.6	1.2	2.5	3.7	3.7
150°	0.6	1.2	2.5	3.1	3.7
152.5°	0.6	1.2	1.9	3.1	3.1
155°	0.6	1.2	1.9	2.5	3.1
157.5°	0.6	1.2	1.9	2.5	2.5
160°	0.6	1.2	1.2	1.9	2.5
162.5°	0.6	0.6	1.2	1.9	1.9
165°	0.6	0.6	1.2	1.9	1.9
167.5°	0.6	0.6	1.2	1.2	1.9
170°	0.6	0.6	1.2	1.2	1.2
172.5°	0.6	0.6	1.2	1.2	0.6
175°	0.6	0.6	1.2	1.2	0.6
177.5°	0.6	0.6	1.2	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	18.69	20.09	19.10	20.46	20.85	15.01	16.41	15.42	16.79	17.18
	3H	19.75	21.00	20.18	21.40	21.83	16.19	17.44	16.62	17.83	18.27
	4H	20.04	21.22	20.49	21.63	22.08	16.71	17.89	17.16	18.30	18.75
	6H	20.18	21.26	20.64	21.69	22.15	17.25	18.33	17.72	18.76	19.23
	8H	20.19	21.22	20.67	21.67	22.14	17.53	18.56	18.01	19.01	19.48
	12H	20.18	21.16	20.66	21.60	22.11	17.82	18.81	18.30	19.25	19.75
4H	2H	18.72	19.89	19.17	20.30	20.75	15.47	16.64	15.92	17.05	17.50
	3H	19.94	20.91	20.40	21.37	21.84	16.83	17.80	17.29	18.26	18.73
	4H	20.32	21.19	20.80	21.67	22.17	17.46	18.33	17.94	18.81	19.32
	6H	20.54	21.30	21.05	21.80	22.33	18.13	18.89	18.64	19.39	19.92
	8H	20.57	21.28	21.09	21.78	22.32	18.48	19.19	18.99	19.69	20.22
	12H	20.58	21.21	21.11	21.74	22.28	18.85	19.49	19.39	20.02	20.56
8H	4H	20.34	21.05	20.85	21.55	22.08	17.68	18.39	18.19	18.89	19.42
	6H	20.61	21.20	21.16	21.75	22.29	18.46	19.05	19.01	19.60	20.14
	8H	20.68	21.21	21.24	21.77	22.33	18.90	19.43	19.46	19.99	20.55
	12H	20.72	21.19	21.28	21.73	22.36	19.40	19.87	19.96	20.42	21.05
12H	4H	20.32	20.96	20.86	21.49	22.03	17.69	18.32	18.22	18.85	19.39
	6H	20.61	21.14	21.17	21.70	22.25	18.50	19.02	19.06	19.59	20.14
	8H	20.71	21.18	21.27	21.72	22.36	18.99	19.46	19.55	20.00	20.64