

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: P892893

Luminaire Tested: 2MB-SC3-A-UNV-CC83-MID-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892893
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-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTIC, 80CRI, 5000K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

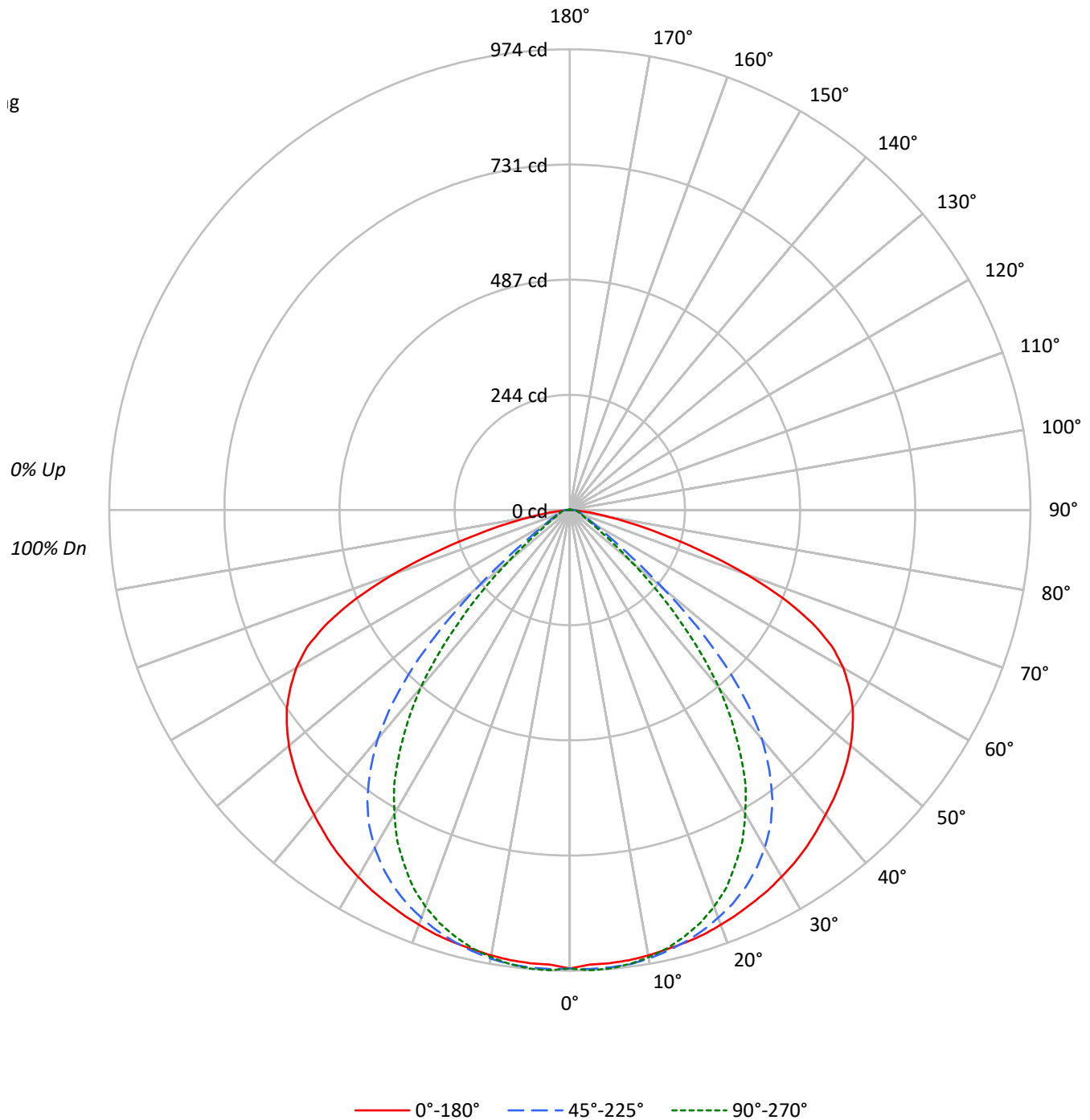
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2032.9 lumens
Efficiency: N/A
Efficacy: 146.3 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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	100				100
1	111	107	103	100	108	105	101	99	100	98	95	97	94	93	93	91	90	88				88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	76	73	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	63	59	55	53				53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47				47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42				42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38				38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	35				35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	33	43	37	33	32				32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19850	19850	19850
5°	19770	19950	20004
10°	19880	20023	19959
15°	20067	20027	19800
20°	20337	19993	19444
25°	20689	19873	18703
30°	21171	19499	17542
35°	21783	18670	15718
40°	22483	16891	13141
45°	23479	13541	9368
50°	24701	8235	5374
55°	26079	3970	2888
60°	27352	2433	1966
65°	27404	1957	1623
70°	23720	1778	1515
75°	16701	1796	1654
80°	9834	2158	2087
85°	4605	3266	3125

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 27743 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	4.5
10°-20°	266.5	13.1
20°-30°	403.4	19.8
30°-40°	465.9	22.9
40°-50°	398.4	19.6
50°-60°	217.6	10.7
60°-70°	109.9	5.4
70°-80°	53.4	2.6
80°-90°	18.3	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°	762.3	37.5
0°-40°	1228.2	60.4
0°-60°	1844.2	90.7
0°-90°	2025.8	99.6
90°-120°	5.4	0.3
90°-150°	6.4	0.3
90°-180°	7.0	0.3
0°-180°	2032.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	969	969	969	969	969	
5°	962	969	971	974	973	92
15°	947	952	945	940	934	268
25°	916	911	880	846	828	423
35°	871	842	747	660	629	546
45°	811	708	468	348	324	626
55°	730	336	111	87	81	651
65°	566	63	40	36	34	547
75°	211	35	23	22	21	234
85°	20	20	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°	969.4	969.4	969.4	969.4	969.4
2.5°	961.8	968.7	971.3	975.7	973.8
5°	961.8	969.4	970.6	974.4	973.2
7.5°	959.9	966.8	968.7	970.6	968.1
10°	956.1	963.0	963.0	963.0	959.9
12.5°	951.0	958.6	954.8	952.3	949.1
15°	946.6	952.3	944.7	940.3	934.0
17.5°	940.9	945.4	932.7	923.9	915.7
20°	933.3	935.2	917.5	901.1	892.3
22.5°	925.1	923.2	900.5	876.5	864.5
25°	915.7	910.6	879.6	845.5	827.8
27.5°	906.8	896.1	854.4	808.2	789.9
30°	895.4	880.9	824.7	766.5	741.9
32.5°	884.1	862.6	789.9	719.1	692.0
35°	871.4	841.7	746.9	659.7	628.8
37.5°	856.3	815.8	693.2	595.3	562.4
40°	841.1	785.5	631.9	520.7	491.6
42.5°	826.6	751.4	556.7	437.3	408.9
45°	810.8	707.7	467.6	347.6	323.5
47.5°	793.7	647.7	364.6	263.5	243.3
50°	775.4	570.0	258.5	184.5	168.7
52.5°	753.9	462.6	170.6	124.5	114.4
55°	730.5	335.5	111.2	86.6	80.9
57.5°	700.8	218.6	78.4	64.5	60.0
60°	667.9	130.8	59.4	51.2	48.0
62.5°	625.6	84.7	48.0	43.0	39.2
65°	565.6	62.6	40.4	36.0	33.5
67.5°	489.7	51.8	34.1	31.0	28.4
70°	396.2	45.5	29.7	27.2	25.3
72.5°	299.5	39.8	25.9	24.0	22.7
75°	211.1	34.8	22.7	22.1	20.9
77.5°	138.4	30.3	20.9	20.2	19.6
80°	83.4	25.9	18.3	18.3	17.7
82.5°	46.8	22.7	16.4	16.4	15.2
85°	19.6	19.6	13.9	13.9	13.3
87.5°	5.7	15.2	11.4	11.4	10.1
90°	0.0	11.4	8.8	8.8	8.2
92.5°	0.0	6.3	6.3	7.0	6.3
95°	0.0	1.3	3.8	5.7	5.1
97.5°	0.0	0.6	2.5	4.4	3.8
100°	0.0	0.0	1.3	3.2	2.5
102.5°	0.0	0.0	0.6	1.9	1.9
105°	0.0	0.0	0.6	1.3	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	1.3	0.6
157.5°	0.6	0.6	0.6	1.3	0.6
160°	0.6	0.6	0.6	1.3	0.6
162.5°	0.6	0.6	1.3	1.3	1.3
165°	0.6	0.6	1.3	1.3	1.3
167.5°	0.6	0.6	1.3	1.3	1.3
170°	0.6	0.6	1.3	1.3	1.3
172.5°	0.6	0.6	1.3	1.3	1.3
175°	0.6	0.6	1.3	1.3	1.3
177.5°	0.6	0.6	1.3	1.3	1.3
180°	1.3	1.3	1.3	1.3	1.3



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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	20.55	21.96	20.92	22.28	22.61	9.67	11.09	10.05	11.41	11.73
	3H	23.33	24.59	23.72	24.92	25.30	10.68	11.94	11.06	12.27	12.65
	4H	24.16	25.34	24.57	25.69	26.08	11.24	12.41	11.64	12.77	13.16
	6H	24.56	25.64	24.98	26.01	26.42	11.93	13.01	12.35	13.39	13.79
	8H	24.63	25.66	25.07	26.05	26.47	12.31	13.33	12.74	13.73	14.14
	12H	24.65	25.63	25.09	26.02	26.46	12.73	13.71	13.17	14.10	14.54
4H	2H	20.37	21.54	20.78	21.90	22.29	10.11	11.28	10.51	11.64	12.03
	3H	23.16	24.13	23.58	24.54	24.95	11.38	12.34	11.80	12.75	13.16
	4H	24.00	24.86	24.44	25.29	25.73	12.12	12.98	12.56	13.40	13.85
	6H	24.47	25.22	24.94	25.67	26.14	13.03	13.78	13.49	14.23	14.70
	8H	24.58	25.28	25.05	25.73	26.21	13.51	14.21	13.99	14.66	15.14
	12H	24.63	25.25	25.12	25.74	26.22	14.06	14.68	14.55	15.17	15.65
8H	4H	23.89	24.59	24.36	25.04	25.52	12.56	13.25	13.03	13.71	14.18
	6H	24.36	24.94	24.87	25.44	25.93	13.67	14.25	14.18	14.75	15.23
	8H	24.50	25.02	25.02	25.53	26.03	14.31	14.83	14.84	15.35	15.85
	12H	24.59	25.05	25.11	25.55	26.13	15.06	15.52	15.57	16.02	16.59
12H	4H	23.85	24.47	24.34	24.96	25.44	12.72	13.34	13.21	13.83	14.31
	6H	24.31	24.83	24.84	25.35	25.85	13.88	14.40	14.41	14.92	15.42
	8H	24.47	24.94	24.99	25.44	26.01	14.62	15.08	15.14	15.58	16.16