

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: P895774

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

Issue Date: 11/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P895774
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-HI-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 80CRI, 4000K CC
HI lumen setting
Light Source: -
Ballast/Driver: -

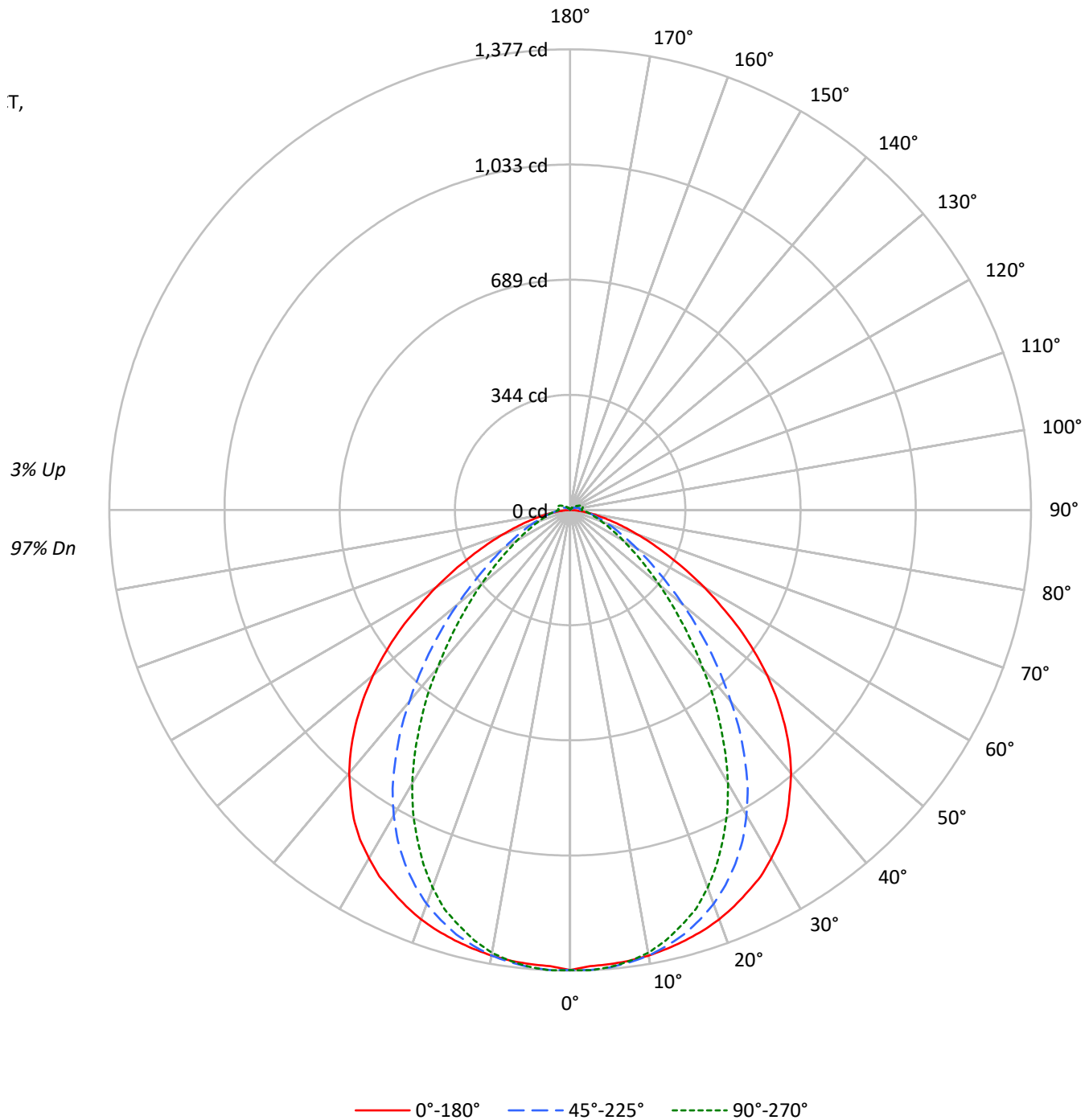
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2864.9 lumens
Efficiency: N/A
Efficacy: 136.4 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): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.39961257980444
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P895774
CATALOG NUMBER: 2MB-SC3-ACL-UNV-CC83-HI-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P895774

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	4.5
10°-20°	369.5	12.9
20°-30°	537.0	18.7
30°-40°	580.5	20.3
40°-50°	489.8	17.1
50°-60°	335.6	11.7
60°-70°	195.7	6.8
70°-80°	99.9	3.5
80°-90°	43.1	1.5
90°-100°	26.1	0.9
100°-110°	23.4	0.8
110°-120°	15.9	0.6
120°-130°	8.9	0.3
130°-140°	4.9	0.2
140°-150°	2.6	0.1
150°-160°	1.3	0.0
160°-170°	0.5	0.0
170°-180°	0.1	0.0
0°-30°	1036.8	36.2
0°-40°	1617.3	56.5
0°-60°	2442.7	85.3
0°-90°	2781.3	97.1
90°-120°	65.4	2.3
90°-150°	81.7	2.9
90°-180°	84.0	2.9
0°-180°	2864.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1375	1375	1375	1375	1375	
5°	1363	1371	1372	1375	1371	130
15°	1332	1331	1314	1298	1285	376
25°	1258	1233	1167	1109	1082	580
35°	1127	1055	910	813	781	702
45°	906	766	587	496	469	697
55°	616	467	319	267	253	549
65°	325	239	165	141	134	326
75°	130	106	84	78	76	140
85°	23	31	42	44	44	28
90°	1	14	30	34	34	2
95°	0	13	29	35	36	0
105°	0	8	26	37	39	0
115°	0	5	16	27	31	0
125°	0	3	9	16	19	0
135°	1	3	7	9	11	1
145°	1	2	5	6	7	1
155°	1	2	3	4	5	0
165°	1	1	2	3	3	0
175°	1	1	2	2	1	0
180°	1	1	1	1	1	



TEST NUMBER: P895774

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1375.0	1375.0	1375.0	1375.0	1375.0
2.5°	1364.6	1373.1	1375.9	1379.7	1376.9
5°	1362.7	1371.2	1372.1	1375.0	1371.2
7.5°	1358.9	1365.5	1363.6	1363.6	1359.8
10°	1352.3	1356.1	1352.3	1347.6	1343.8
12.5°	1342.8	1345.7	1334.3	1327.7	1318.3
15°	1331.5	1330.6	1313.5	1297.5	1285.2
17.5°	1318.3	1311.7	1285.2	1260.6	1250.2
20°	1302.2	1289.9	1253.1	1217.2	1201.1
22.5°	1281.4	1264.4	1213.4	1167.1	1145.3
25°	1257.8	1233.2	1167.1	1109.4	1082.0
27.5°	1234.2	1197.3	1115.1	1043.3	1016.8
30°	1202.0	1155.7	1053.7	972.4	943.1
32.5°	1168.0	1109.4	987.5	893.0	863.7
35°	1127.4	1054.6	910.0	812.7	780.6
37.5°	1076.3	990.4	831.6	729.5	702.1
40°	1027.2	920.4	747.5	646.4	616.1
42.5°	969.6	844.8	666.2	567.9	540.5
45°	906.3	766.4	586.8	496.1	468.7
47.5°	839.2	691.7	511.2	427.1	405.4
50°	768.3	615.2	440.4	367.6	347.8
52.5°	692.7	538.6	375.2	314.7	296.7
55°	616.1	466.8	319.4	267.4	253.3
57.5°	535.8	397.8	272.2	227.7	214.5
60°	463.0	340.2	229.6	194.7	184.3
62.5°	391.2	287.3	195.6	165.4	156.9
65°	325.1	239.1	165.4	140.8	134.2
67.5°	267.4	200.3	141.7	121.0	116.2
70°	213.6	163.5	119.1	103.9	99.2
72.5°	168.2	132.3	100.2	89.8	86.9
75°	129.5	105.8	84.1	78.4	76.5
77.5°	94.5	81.3	70.9	68.0	67.1
80°	66.1	61.4	59.5	59.5	59.5
82.5°	41.6	45.4	50.1	52.0	52.0
85°	22.7	31.2	41.6	44.4	44.4
87.5°	9.4	21.7	35.0	37.8	36.9
90°	0.9	14.2	30.2	34.0	34.0
92.5°	0.0	14.2	30.2	34.0	34.0
95°	0.0	13.2	29.3	35.0	35.9
97.5°	0.0	12.3	29.3	35.9	36.9
100°	0.9	11.3	29.3	36.9	37.8
102.5°	0.0	9.4	27.4	36.9	38.7
105°	0.0	7.6	25.5	36.9	38.7
107.5°	0.0	5.7	23.6	35.0	37.8
110°	0.0	5.7	21.7	33.1	35.9



TEST NUMBER: P895774

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	4.7	18.9	30.2	34.0
115°	0.0	4.7	16.1	27.4	31.2
117.5°	0.0	3.8	14.2	24.6	27.4
120°	0.0	3.8	12.3	21.7	24.6
122.5°	0.0	3.8	11.3	18.9	21.7
125°	0.0	2.8	9.4	16.1	18.9
127.5°	0.9	2.8	8.5	14.2	17.0
130°	0.9	2.8	7.6	12.3	15.1
132.5°	0.9	2.8	6.6	11.3	13.2
135°	0.9	2.8	6.6	9.4	11.3
137.5°	0.9	2.8	5.7	8.5	9.4
140°	0.9	2.8	4.7	7.6	8.5
142.5°	0.9	1.9	4.7	6.6	7.6
145°	0.9	1.9	4.7	5.7	6.6
147.5°	0.9	1.9	3.8	5.7	5.7
150°	0.9	1.9	3.8	4.7	5.7
152.5°	0.9	1.9	2.8	4.7	4.7
155°	0.9	1.9	2.8	3.8	4.7
157.5°	0.9	1.9	2.8	3.8	3.8
160°	0.9	1.9	1.9	2.8	3.8
162.5°	0.9	0.9	1.9	2.8	2.8
165°	0.9	0.9	1.9	2.8	2.8
167.5°	0.9	0.9	1.9	1.9	2.8
170°	0.9	0.9	1.9	1.9	1.9
172.5°	0.9	0.9	1.9	1.9	0.9
175°	0.9	0.9	1.9	1.9	0.9
177.5°	0.9	0.9	1.9	0.9	0.9
180°	0.9	0.9	0.9	0.9	0.9



TEST NUMBER: P895774
 CATALOG NUMBER: 2MB-SC3-ACL-UNV-CC83-HI-4000K

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	20.13	21.53	20.54	21.91	22.29	16.45	17.85	16.87	18.23	18.62
	3H	21.20	22.45	21.62	22.84	23.27	17.63	18.88	18.06	19.28	19.71
	4H	21.49	22.66	21.94	23.07	23.52	18.16	19.33	18.61	19.74	20.19
	6H	21.62	22.70	22.08	23.13	23.60	18.70	19.78	19.16	20.20	20.67
	8H	21.63	22.66	22.11	23.11	23.59	18.97	20.00	19.45	20.45	20.92
	12H	21.62	22.61	22.10	23.05	23.55	19.27	20.25	19.75	20.69	21.19
4H	2H	20.16	21.33	20.61	21.74	22.19	16.91	18.08	17.36	18.49	18.94
	3H	21.38	22.35	21.85	22.81	23.29	18.27	19.24	18.73	19.70	20.18
	4H	21.76	22.64	22.24	23.11	23.62	18.90	19.78	19.39	20.25	20.76
	6H	21.98	22.74	22.49	23.24	23.77	19.57	20.33	20.08	20.83	21.36
	8H	22.01	22.72	22.53	23.22	23.76	19.92	20.63	20.43	21.13	21.67
	12H	22.02	22.65	22.55	23.18	23.73	20.30	20.93	20.83	21.46	22.00
8H	4H	21.78	22.49	22.29	22.99	23.53	19.12	19.83	19.63	20.33	20.87
	6H	22.06	22.64	22.60	23.19	23.73	19.91	20.49	20.45	21.04	21.58
	8H	22.12	22.65	22.69	23.21	23.77	20.34	20.87	20.91	21.43	21.99
	12H	22.16	22.63	22.72	23.17	23.80	20.85	21.32	21.41	21.86	22.49
12H	4H	21.77	22.40	22.30	22.93	23.47	19.13	19.76	19.66	20.29	20.83
	6H	22.05	22.58	22.61	23.14	23.70	19.94	20.47	20.50	21.03	21.58
	8H	22.16	22.62	22.71	23.17	23.80	20.43	20.90	20.99	21.45	22.08