

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: P892887

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892887
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-HI-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTIC, 80CRI, 5000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

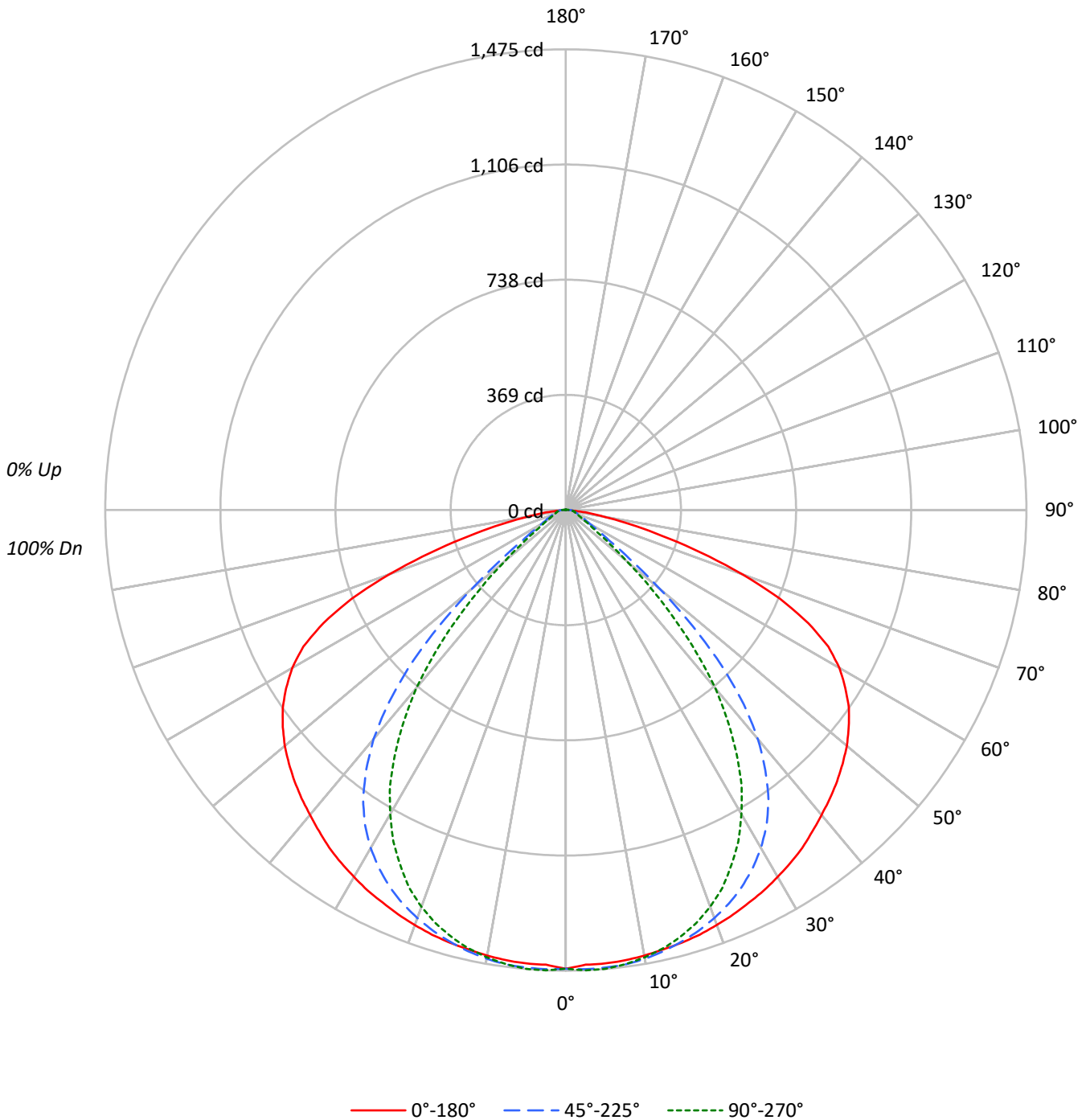
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3080.2 lumens
Efficiency: N/A
Efficacy: 146.7 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): 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

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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	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	72	69	76	72	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°	30072	30072	30072
5°	29950	30226	30304
10°	30118	30336	30236
15°	30401	30342	29996
20°	30812	30291	29457
25°	31341	30108	28334
30°	32076	29541	26574
35°	33001	28287	23812
40°	34060	25591	19909
45°	35569	20514	14195
50°	37421	12475	8142
55°	39509	6015	4373
60°	41440	3686	2981
65°	41513	2970	2456
70°	35940	2694	2293
75°	25301	2729	2500
80°	14905	3278	3160
85°	6978	4957	4722

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 42031 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.9	4.5
10°-20°	403.8	13.1
20°-30°	611.1	19.8
30°-40°	705.8	22.9
40°-50°	603.6	19.6
50°-60°	329.7	10.7
60°-70°	166.5	5.4
70°-80°	80.9	2.6
80°-90°	27.8	0.9
90°-100°	6.7	0.2
100°-110°	1.1	0.0
110°-120°	0.4	0.0
120°-130°	0.4	0.0
130°-140°	0.7	0.0
140°-150°	0.6	0.0
150°-160°	0.5	0.0
160°-170°	0.4	0.0
170°-180°	0.2	0.0
0°-30°	1154.9	37.5
0°-40°	1860.7	60.4
0°-60°	2793.9	90.7
0°-90°	3069.1	99.6
90°-120°	8.3	0.3
90°-150°	10.0	0.3
90°-180°	11.0	0.4
0°-180°	3080.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1469	1469	1469	1469	1469	
5°	1457	1469	1470	1476	1474	139
15°	1434	1443	1431	1425	1415	406
25°	1387	1380	1333	1281	1254	641
35°	1320	1275	1132	1000	953	827
45°	1228	1072	708	526	490	949
55°	1107	508	168	131	122	986
65°	857	95	61	55	51	829
75°	320	53	34	34	32	354
85°	30	30	21	21	20	46
90°	0	17	13	13	12	1
95°	0	2	6	9	8	0
105°	0	0	1	2	1	0
115°	0	0	0	1	1	0
125°	0	0	1	1	0	0
135°	1	1	1	1	1	1
145°	1	1	1	1	1	1
155°	1	1	1	2	1	0
165°	1	1	2	2	2	0
175°	1	1	2	2	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1468.6	1468.6	1468.6	1468.6	1468.6
2.5°	1457.1	1467.6	1471.5	1478.2	1475.3
5°	1457.1	1468.6	1470.5	1476.2	1474.3
7.5°	1454.2	1464.8	1467.6	1470.5	1466.7
10°	1448.5	1459.0	1459.0	1459.0	1454.2
12.5°	1440.8	1452.3	1446.6	1442.7	1438.0
15°	1434.1	1442.7	1431.3	1424.6	1415.0
17.5°	1425.5	1432.2	1413.1	1399.7	1387.2
20°	1414.0	1416.9	1390.1	1365.2	1351.8
22.5°	1401.6	1398.7	1364.2	1327.9	1309.7
25°	1387.2	1379.6	1332.6	1280.9	1254.1
27.5°	1373.8	1357.5	1294.3	1224.5	1196.7
30°	1356.6	1334.6	1249.4	1161.3	1123.9
32.5°	1339.3	1306.8	1196.7	1089.5	1048.3
35°	1320.2	1275.2	1131.6	999.5	952.6
37.5°	1297.2	1236.0	1050.2	901.8	852.0
40°	1274.2	1190.0	957.4	788.9	744.8
42.5°	1252.2	1138.3	843.4	662.5	619.4
45°	1228.3	1072.2	708.4	526.5	490.2
47.5°	1202.4	981.3	552.4	399.2	368.6
50°	1174.7	863.5	391.6	279.5	255.6
52.5°	1142.1	700.8	258.5	188.6	173.3
55°	1106.7	508.4	168.5	131.2	122.5
57.5°	1061.7	331.2	118.7	97.7	90.9
60°	1011.9	198.2	90.0	77.5	72.8
62.5°	947.8	128.3	72.8	65.1	59.4
65°	856.8	94.8	61.3	54.6	50.7
67.5°	742.0	78.5	51.7	46.9	43.1
70°	600.3	68.9	45.0	41.2	38.3
72.5°	453.8	60.3	39.3	36.4	34.5
75°	319.8	52.7	34.5	33.5	31.6
77.5°	209.7	46.0	31.6	30.6	29.7
80°	126.4	39.3	27.8	27.8	26.8
82.5°	70.8	34.5	24.9	24.9	23.0
85°	29.7	29.7	21.1	21.1	20.1
87.5°	8.6	23.0	17.2	17.2	15.3
90°	0.0	17.2	13.4	13.4	12.4
92.5°	0.0	9.6	9.6	10.5	9.6
95°	0.0	1.9	5.7	8.6	7.7
97.5°	0.0	1.0	3.8	6.7	5.7
100°	0.0	0.0	1.9	4.8	3.8
102.5°	0.0	0.0	1.0	2.9	2.9
105°	0.0	0.0	1.0	1.9	1.0
107.5°	0.0	0.0	1.0	1.0	1.0
110°	0.0	0.0	1.0	1.0	1.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	1.0	1.0	1.0
115°	0.0	0.0	0.0	1.0	1.0
117.5°	0.0	0.0	0.0	1.0	0.0
120°	0.0	0.0	0.0	1.0	0.0
122.5°	0.0	0.0	0.0	1.0	0.0
125°	0.0	0.0	1.0	1.0	0.0
127.5°	0.0	0.0	1.0	1.0	1.0
130°	0.0	0.0	1.0	1.0	1.0
132.5°	1.0	0.0	1.0	1.0	1.0
135°	1.0	1.0	1.0	1.0	1.0
137.5°	1.0	1.0	1.0	1.0	1.0
140°	1.0	1.0	1.0	1.0	1.0
142.5°	1.0	1.0	1.0	1.0	1.0
145°	1.0	1.0	1.0	1.0	1.0
147.5°	1.0	1.0	1.0	1.0	1.0
150°	1.0	1.0	1.0	1.0	1.0
152.5°	1.0	1.0	1.0	1.0	1.0
155°	1.0	1.0	1.0	1.9	1.0
157.5°	1.0	1.0	1.0	1.9	1.0
160°	1.0	1.0	1.0	1.9	1.0
162.5°	1.0	1.0	1.9	1.9	1.9
165°	1.0	1.0	1.9	1.9	1.9
167.5°	1.0	1.0	1.9	1.9	1.9
170°	1.0	1.0	1.9	1.9	1.9
172.5°	1.0	1.0	1.9	1.9	1.9
175°	1.0	1.0	1.9	1.9	1.9
177.5°	1.0	1.0	1.9	1.9	1.9
180°	1.9	1.9	1.9	1.9	1.9



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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	21.99	23.41	22.37	23.73	24.05	11.12	12.53	11.49	12.85	13.17
	3H	24.77	26.03	25.16	26.37	26.74	12.12	13.38	12.51	13.71	14.09
	4H	25.61	26.78	26.01	27.14	27.53	12.68	13.85	13.08	14.21	14.60
	6H	26.00	27.08	26.42	27.46	27.86	13.38	14.46	13.80	14.83	15.23
	8H	26.07	27.10	26.51	27.50	27.91	13.75	14.78	14.18	15.17	15.59
	12H	26.09	27.07	26.53	27.46	27.90	14.17	15.15	14.61	15.54	15.98
4H	2H	21.81	22.99	22.22	23.34	23.73	11.55	12.72	11.96	13.08	13.47
	3H	24.61	25.57	25.03	25.98	26.39	12.82	13.79	13.24	14.20	14.61
	4H	25.44	26.30	25.88	26.73	27.18	13.56	14.42	14.00	14.85	15.30
	6H	25.91	26.66	26.38	27.11	27.58	14.47	15.22	14.94	15.67	16.14
	8H	26.02	26.72	26.50	27.18	27.65	14.96	15.66	15.43	16.11	16.59
	12H	26.08	26.70	26.57	27.19	27.67	15.50	16.12	15.99	16.61	17.09
8H	4H	25.33	26.03	25.81	26.48	26.96	14.00	14.70	14.47	15.15	15.63
	6H	25.81	26.38	26.31	26.88	27.37	15.12	15.69	15.62	16.19	16.68
	8H	25.94	26.46	26.46	26.98	27.48	15.76	16.28	16.28	16.80	17.30
	12H	26.04	26.50	26.55	27.00	27.57	16.50	16.96	17.02	17.46	18.04
12H	4H	25.30	25.92	25.79	26.41	26.89	14.16	14.79	14.66	15.27	15.75
	6H	25.76	26.28	26.28	26.80	27.30	15.33	15.85	15.85	16.37	16.87
	8H	25.92	26.38	26.44	26.88	27.45	16.07	16.53	16.59	17.03	17.60