

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: P892921

Luminaire Tested: 2MB-SC3-AOL-UNV-CC83-HI-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-AOL-UNV-CC83-HI-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 800
3500K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

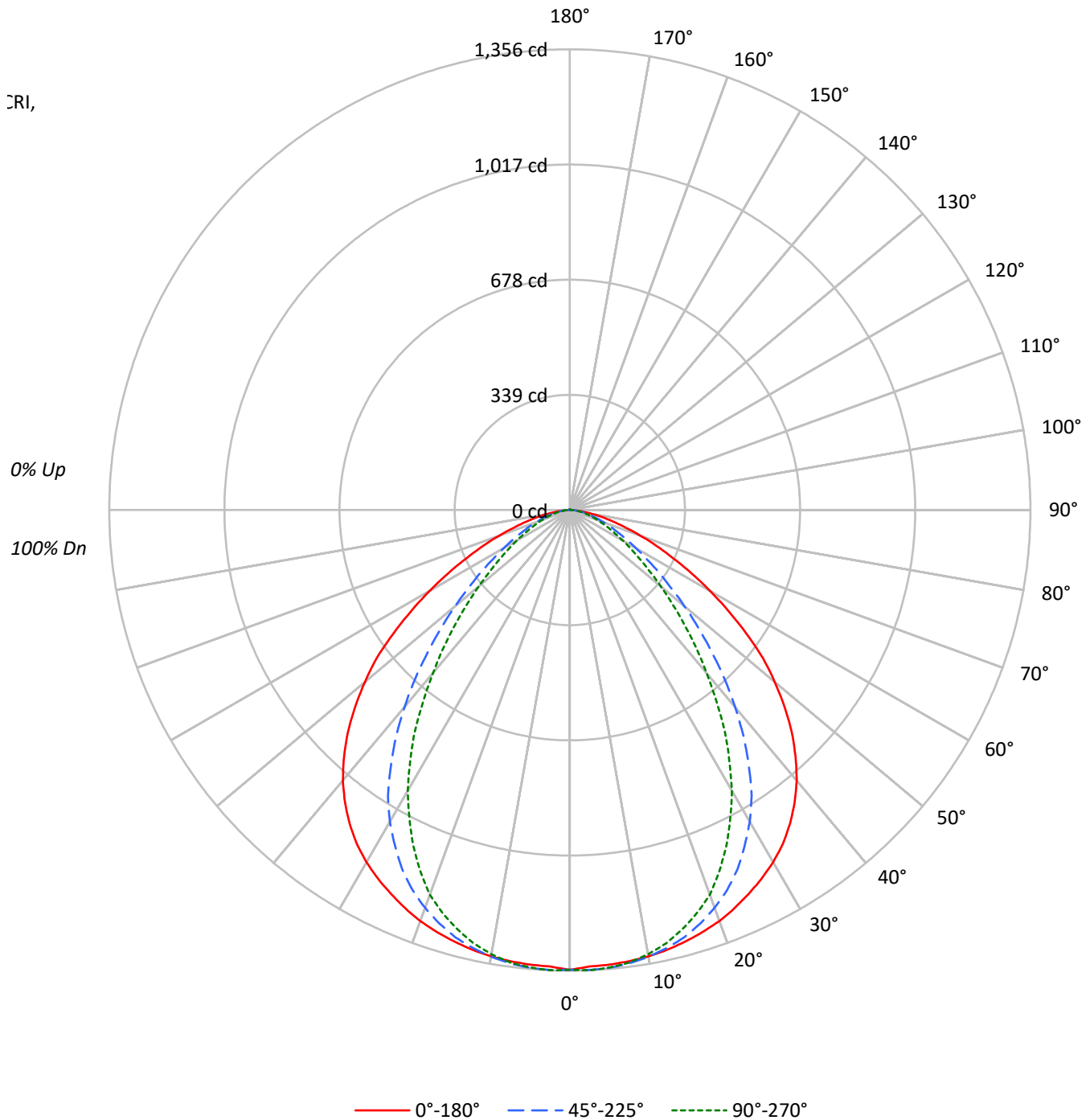
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2758.9 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.08 / 1.18
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	104	101	98	100	97	95	96	94	92	93	91	89	89	89	89	87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	78	78	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	68	68	68	66
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	60	60	60	58
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	53	53	53	52
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	48	48	48	46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	43	43	43	41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	39	39	39	37
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	36	36	36	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	33	33	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27709	27709	27709
5°	27609	27796	27778
10°	27737	27756	27604
15°	27872	27601	27096
20°	28053	27155	26258
25°	28156	26378	24640
30°	28297	25051	22564
35°	28224	22962	19898
40°	27783	20227	16728
45°	26760	17091	13804
50°	25096	14048	11134
55°	22669	11399	8950
60°	19522	9182	7421
65°	16226	7583	6163
70°	13309	6352	5257
75°	10570	5427	4557
80°	7983	4634	4104
85°	5380	4299	3877

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26760 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	4.7
10°-20°	366.3	13.3
20°-30°	536.4	19.4
30°-40°	585.4	21.2
40°-50°	496.3	18.0
50°-60°	337.3	12.2
60°-70°	190.6	6.9
70°-80°	87.0	3.2
80°-90°	22.7	0.8
90°-100°	2.9	0.1
100°-110°	1.7	0.1
110°-120°	0.9	0.0
120°-130°	0.8	0.0
130°-140°	0.7	0.0
140°-150°	0.6	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	1031.1	37.4
0°-40°	1616.5	58.6
0°-60°	2450.1	88.8
0°-90°	2750.4	99.7
90°-120°	5.6	0.2
90°-150°	7.7	0.3
90°-180°	9.0	0.3
0°-180°	2758.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1353	1353	1353	1353	1353	
5°	1343	1350	1352	1355	1351	128
15°	1315	1314	1302	1287	1278	372
25°	1246	1225	1168	1114	1091	575
35°	1129	1057	919	823	796	705
45°	924	780	590	501	477	710
55°	635	469	319	265	251	567
65°	335	238	156	134	127	337
75°	134	98	69	60	58	145
85°	23	21	18	17	16	28
90°	0	3	4	5	5	1
95°	0	1	3	5	5	0
105°	0	1	2	3	3	0
115°	0	0	1	2	2	0
125°	0	0	1	2	2	0
135°	1	1	1	1	1	1
145°	1	1	1	1	1	1
155°	1	1	1	1	1	0
165°	1	1	1	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°	1353.2	1353.2	1353.2	1353.2	1353.2
2.5°	1345.0	1352.3	1355.1	1358.7	1356.0
5°	1343.2	1350.5	1352.3	1355.1	1351.4
7.5°	1339.5	1345.9	1345.9	1345.9	1343.2
10°	1334.0	1338.6	1334.9	1331.3	1327.6
12.5°	1325.8	1327.6	1320.3	1313.9	1306.6
15°	1314.8	1313.9	1302.0	1287.4	1278.2
17.5°	1302.0	1298.3	1276.4	1257.2	1244.4
20°	1287.4	1278.2	1246.2	1216.0	1205.0
22.5°	1268.2	1255.3	1210.5	1168.4	1150.1
25°	1246.2	1225.1	1167.5	1114.4	1090.6
27.5°	1223.3	1192.2	1114.4	1048.6	1022.9
30°	1196.8	1153.8	1059.5	983.6	954.3
32.5°	1166.6	1111.7	996.4	904.9	873.8
35°	1129.1	1056.8	918.6	822.6	796.0
37.5°	1087.0	998.2	839.9	740.2	708.2
40°	1039.4	931.4	756.7	657.0	625.8
42.5°	983.6	860.1	674.3	577.3	550.8
45°	924.1	780.5	590.2	501.4	476.7
47.5°	857.3	701.8	513.3	429.1	409.9
50°	787.8	623.1	441.0	368.7	349.5
52.5°	717.3	544.4	374.2	312.9	296.5
55°	635.0	469.4	319.3	265.3	250.7
57.5°	554.5	402.6	267.2	222.3	213.2
60°	476.7	338.5	224.2	187.6	181.2
62.5°	404.4	283.6	188.5	158.3	150.1
65°	334.9	237.9	156.5	133.6	127.2
67.5°	275.4	194.0	130.8	110.7	105.2
70°	222.3	156.5	106.1	90.6	87.8
72.5°	172.9	125.4	86.9	75.0	72.3
75°	133.6	97.9	68.6	60.4	57.6
77.5°	97.9	73.2	53.1	46.7	44.8
80°	67.7	52.2	39.3	35.7	34.8
82.5°	43.0	33.9	28.4	25.6	25.6
85°	22.9	21.0	18.3	17.4	16.5
87.5°	9.1	10.1	10.1	10.1	9.1
90°	0.0	2.7	3.7	4.6	4.6
92.5°	0.0	1.8	3.7	4.6	4.6
95°	0.0	0.9	2.7	4.6	4.6
97.5°	0.0	0.9	2.7	3.7	3.7
100°	0.0	0.9	1.8	3.7	3.7
102.5°	0.0	0.9	1.8	2.7	3.7
105°	0.0	0.9	1.8	2.7	2.7
107.5°	0.0	0.0	1.8	2.7	2.7
110°	0.0	0.0	0.9	1.8	2.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.9	1.8	2.7
115°	0.0	0.0	0.9	1.8	1.8
117.5°	0.0	0.0	0.9	1.8	1.8
120°	0.0	0.0	0.9	1.8	1.8
122.5°	0.0	0.0	0.9	1.8	1.8
125°	0.0	0.0	0.9	1.8	1.8
127.5°	0.0	0.9	0.9	0.9	1.8
130°	0.0	0.9	0.9	0.9	1.8
132.5°	0.9	0.9	0.9	0.9	0.9
135°	0.9	0.9	0.9	0.9	0.9
137.5°	0.9	0.9	0.9	0.9	0.9
140°	0.9	0.9	0.9	0.9	0.9
142.5°	0.9	0.9	0.9	0.9	0.9
145°	0.9	0.9	0.9	0.9	0.9
147.5°	0.9	0.9	0.9	0.9	0.9
150°	0.9	0.9	0.9	0.9	0.9
152.5°	0.9	0.9	0.9	0.9	0.9
155°	0.9	0.9	0.9	0.9	0.9
157.5°	0.9	0.9	0.9	0.9	0.9
160°	0.9	0.9	0.9	0.9	1.8
162.5°	0.9	0.9	0.9	1.8	1.8
165°	0.9	0.9	0.9	1.8	1.8
167.5°	0.9	0.9	0.9	1.8	1.8
170°	0.9	0.9	0.9	1.8	1.8
172.5°	0.9	0.9	0.9	1.8	1.8
175°	0.9	0.9	1.8	1.8	1.8
177.5°	0.9	0.9	1.8	1.8	1.8
180°	1.8	1.8	1.8	1.8	1.8



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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	21.88	23.32	22.25	23.64	23.96	17.24	18.68	17.61	19.00	19.33
	3H	23.13	24.42	23.51	24.75	25.12	18.28	19.57	18.66	19.90	20.27
	4H	23.53	24.73	23.93	25.09	25.48	18.65	19.85	19.05	20.21	20.60
	6H	23.77	24.88	24.19	25.25	25.65	18.91	20.02	19.33	20.39	20.79
	8H	23.82	24.88	24.26	25.27	25.68	19.00	20.05	19.43	20.45	20.86
	12H	23.84	24.85	24.28	25.24	25.68	19.06	20.07	19.50	20.46	20.90
4H	2H	21.89	23.10	22.30	23.45	23.84	17.81	19.02	18.22	19.37	19.76
	3H	23.30	24.29	23.72	24.70	25.11	19.04	20.03	19.46	20.44	20.85
	4H	23.79	24.68	24.23	25.10	25.55	19.50	20.39	19.94	20.81	21.26
	6H	24.13	24.90	24.60	25.35	25.82	19.86	20.63	20.32	21.08	21.55
	8H	24.22	24.94	24.69	25.39	25.87	19.98	20.70	20.45	21.15	21.63
	12H	24.27	24.91	24.76	25.39	25.87	20.08	20.72	20.57	21.21	21.69
8H	4H	23.78	24.50	24.25	24.95	25.43	19.79	20.51	20.26	20.96	21.44
	6H	24.18	24.77	24.68	25.27	25.75	20.24	20.83	20.74	21.33	21.81
	8H	24.30	24.83	24.82	25.35	25.84	20.41	20.95	20.94	21.46	21.96
	12H	24.39	24.86	24.91	25.36	25.93	20.58	21.05	21.10	21.55	22.12
12H	4H	23.76	24.40	24.25	24.88	25.36	19.82	20.46	20.31	20.95	21.43
	6H	24.15	24.68	24.67	25.20	25.69	20.29	20.82	20.81	21.34	21.83
	8H	24.30	24.77	24.82	25.27	25.85	20.52	20.99	21.03	21.49	22.06