

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: P895783

Luminaire Tested: 2MB-SC3-ACL-UNV-CC93-HI-4000K

Issue Date: 11/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P895783
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-CC93-HI-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 4000K CC
HI lumen setting
Light Source: -
Ballast/Driver: -

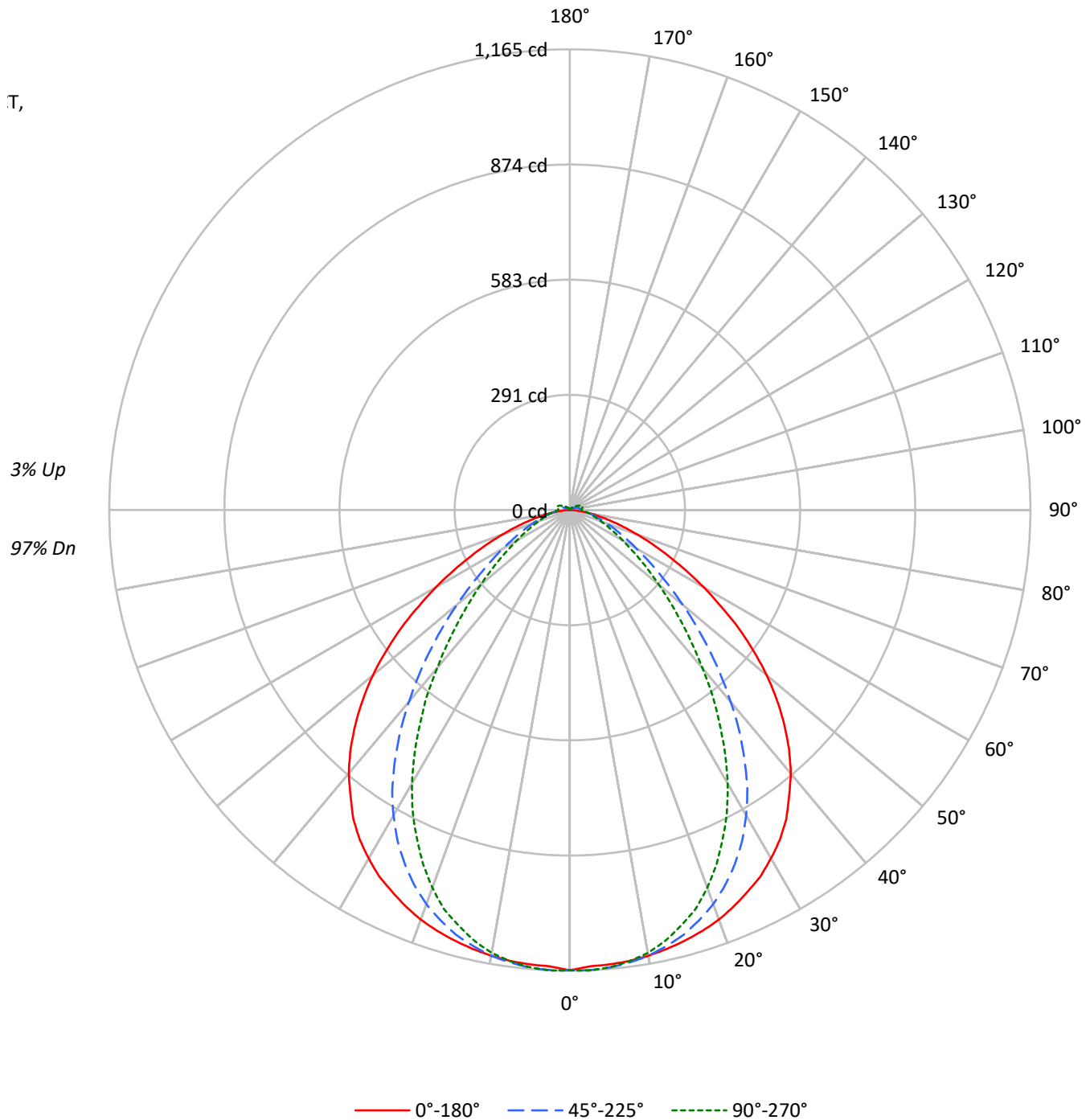
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2425.0 lumens
Efficiency: N/A
Efficacy: 115.5 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

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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	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°	23831	23831	23831
5°	23621	23358	23219
10°	23624	22788	22410
15°	23625	22081	21273
20°	23655	21173	19883
25°	23590	19975	18051
30°	23485	18412	15982
35°	23169	16372	13542
40°	22449	13965	11036
45°	21317	11493	8745
50°	19726	9135	6827
55°	17562	7102	5286
60°	14959	5545	4140
65°	12230	4406	3291
70°	9702	3569	2701
75°	7494	2906	2362
80°	5331	2449	2139
85°	3046	2134	1927

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21317 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.2	4.5
10°-20°	312.8	12.9
20°-30°	454.5	18.7
30°-40°	491.4	20.3
40°-50°	414.5	17.1
50°-60°	284.1	11.7
60°-70°	165.6	6.8
70°-80°	84.6	3.5
80°-90°	36.5	1.5
90°-100°	22.1	0.9
100°-110°	19.8	0.8
110°-120°	13.4	0.6
120°-130°	7.5	0.3
130°-140°	4.1	0.2
140°-150°	2.2	0.1
150°-160°	1.1	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	877.6	36.2
0°-40°	1368.9	56.4
0°-60°	2067.5	85.3
0°-90°	2354.2	97.1
90°-120°	55.3	2.3
90°-150°	69.2	2.9
90°-180°	71.0	2.9
0°-180°	2425.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1164	1164	1164	1164	1164	
5°	1153	1161	1161	1164	1161	110
15°	1127	1126	1112	1098	1088	318
25°	1065	1044	988	939	916	491
35°	954	893	770	688	661	595
45°	767	649	497	420	397	590
55°	522	395	270	226	214	465
65°	275	202	140	119	114	276
75°	110	90	71	66	65	119
85°	19	26	35	38	38	23
90°	1	12	26	29	29	1
95°	0	11	25	30	30	0
105°	0	6	22	31	33	0
115°	0	4	14	23	26	0
125°	0	2	8	14	16	0
135°	1	2	6	8	10	1
145°	1	2	4	5	6	1
155°	1	2	2	3	4	0
165°	1	1	2	2	2	0
175°	1	1	2	2	1	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1163.8	1163.8	1163.8	1163.8	1163.8
2.5°	1155.0	1162.2	1164.6	1167.8	1165.4
5°	1153.4	1160.6	1161.4	1163.8	1160.6
7.5°	1150.2	1155.8	1154.2	1154.2	1151.0
10°	1144.6	1147.8	1144.6	1140.6	1137.4
12.5°	1136.6	1139.0	1129.4	1123.8	1115.8
15°	1127.0	1126.2	1111.8	1098.2	1087.8
17.5°	1115.8	1110.2	1087.8	1067.0	1058.2
20°	1102.2	1091.8	1060.6	1030.2	1016.6
22.5°	1084.6	1070.2	1027.0	987.8	969.4
25°	1064.6	1043.8	987.8	939.0	915.8
27.5°	1044.6	1013.4	943.8	883.1	860.7
30°	1017.4	978.2	891.8	823.1	798.3
32.5°	988.6	939.0	835.9	755.9	731.1
35°	954.2	892.6	770.3	687.9	660.7
37.5°	911.0	838.3	703.9	617.5	594.3
40°	869.5	779.1	632.7	547.1	521.5
42.5°	820.7	715.1	563.9	480.7	457.5
45°	767.1	648.7	496.7	419.9	396.7
47.5°	710.3	585.5	432.7	361.5	343.1
50°	650.3	520.7	372.7	311.1	294.4
52.5°	586.3	455.9	317.5	266.4	251.2
55°	521.5	395.1	270.4	226.4	214.4
57.5°	453.5	336.7	230.4	192.8	181.6
60°	391.9	288.0	194.4	164.8	156.0
62.5°	331.1	243.2	165.6	140.0	132.8
65°	275.2	202.4	140.0	119.2	113.6
67.5°	226.4	169.6	120.0	102.4	98.4
70°	180.8	138.4	100.8	88.0	84.0
72.5°	142.4	112.0	84.8	76.0	73.6
75°	109.6	89.6	71.2	66.4	64.8
77.5°	80.0	68.8	60.0	57.6	56.8
80°	56.0	52.0	50.4	50.4	50.4
82.5°	35.2	38.4	42.4	44.0	44.0
85°	19.2	26.4	35.2	37.6	37.6
87.5°	8.0	18.4	29.6	32.0	31.2
90°	0.8	12.0	25.6	28.8	28.8
92.5°	0.0	12.0	25.6	28.8	28.8
95°	0.0	11.2	24.8	29.6	30.4
97.5°	0.0	10.4	24.8	30.4	31.2
100°	0.8	9.6	24.8	31.2	32.0
102.5°	0.0	8.0	23.2	31.2	32.8
105°	0.0	6.4	21.6	31.2	32.8
107.5°	0.0	4.8	20.0	29.6	32.0
110°	0.0	4.8	18.4	28.0	30.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	4.0	16.0	25.6	28.8
115°	0.0	4.0	13.6	23.2	26.4
117.5°	0.0	3.2	12.0	20.8	23.2
120°	0.0	3.2	10.4	18.4	20.8
122.5°	0.0	3.2	9.6	16.0	18.4
125°	0.0	2.4	8.0	13.6	16.0
127.5°	0.8	2.4	7.2	12.0	14.4
130°	0.8	2.4	6.4	10.4	12.8
132.5°	0.8	2.4	5.6	9.6	11.2
135°	0.8	2.4	5.6	8.0	9.6
137.5°	0.8	2.4	4.8	7.2	8.0
140°	0.8	2.4	4.0	6.4	7.2
142.5°	0.8	1.6	4.0	5.6	6.4
145°	0.8	1.6	4.0	4.8	5.6
147.5°	0.8	1.6	3.2	4.8	4.8
150°	0.8	1.6	3.2	4.0	4.8
152.5°	0.8	1.6	2.4	4.0	4.0
155°	0.8	1.6	2.4	3.2	4.0
157.5°	0.8	1.6	2.4	3.2	3.2
160°	0.8	1.6	1.6	2.4	3.2
162.5°	0.8	0.8	1.6	2.4	2.4
165°	0.8	0.8	1.6	2.4	2.4
167.5°	0.8	0.8	1.6	1.6	2.4
170°	0.8	0.8	1.6	1.6	1.6
172.5°	0.8	0.8	1.6	1.6	0.8
175°	0.8	0.8	1.6	1.6	0.8
177.5°	0.8	0.8	1.6	0.8	0.8
180°	0.8	0.8	0.8	0.8	0.8



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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	19.55	20.95	19.96	21.33	21.71	15.88	17.28	16.29	17.65	18.04
	3H	20.62	21.87	21.04	22.26	22.69	17.06	18.31	17.48	18.70	19.13
	4H	20.91	22.08	21.36	22.49	22.94	17.58	18.75	18.03	19.16	19.62
	6H	21.04	22.12	21.51	22.55	23.02	18.12	19.20	18.58	19.63	20.09
	8H	21.06	22.08	21.53	22.53	23.01	18.40	19.42	18.87	19.87	20.35
	12H	21.04	22.03	21.52	22.47	22.97	18.69	19.67	19.17	20.11	20.61
4H	2H	19.58	20.75	20.03	21.16	21.62	16.33	17.50	16.78	17.91	18.37
	3H	20.80	21.77	21.27	22.23	22.71	17.70	18.67	18.16	19.12	19.60
	4H	21.18	22.06	21.67	22.53	23.04	18.33	19.20	18.81	19.67	20.18
	6H	21.40	22.16	21.91	22.66	23.19	19.00	19.76	19.50	20.25	20.78
	8H	21.44	22.15	21.95	22.64	23.18	19.34	20.05	19.86	20.55	21.09
	12H	21.44	22.07	21.97	22.61	23.15	19.72	20.35	20.25	20.89	21.43
8H	4H	21.20	21.91	21.72	22.41	22.95	18.54	19.25	19.06	19.75	20.29
	6H	21.48	22.06	22.02	22.61	23.16	19.33	19.92	19.87	20.46	21.01
	8H	21.54	22.07	22.11	22.63	23.19	19.77	20.29	20.33	20.86	21.41
	12H	21.58	22.05	22.14	22.59	23.23	20.27	20.74	20.83	21.28	21.91
12H	4H	21.19	21.82	21.72	22.35	22.89	18.55	19.18	19.08	19.72	20.26
	6H	21.47	22.00	22.03	22.56	23.12	19.36	19.89	19.92	20.45	21.01
	8H	21.58	22.05	22.14	22.59	23.22	19.86	20.33	20.42	20.87	21.50