

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: P892850

Luminaire Tested: 2MB-5HL-LVRA-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-5HL-LVRA-UNV-L935
Description: 5000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

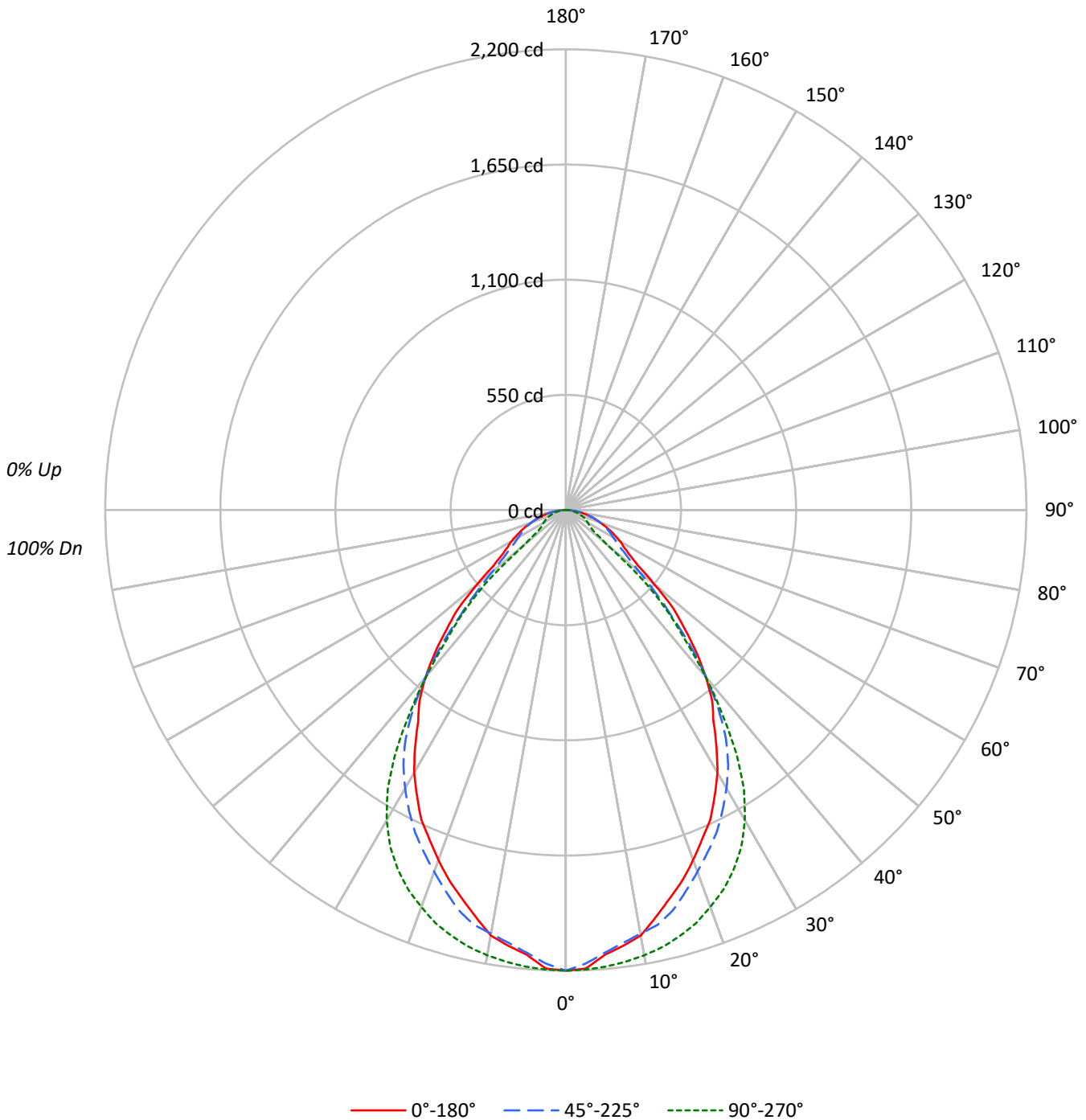
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3570.0 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 33.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 4.5
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78	78	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69	69	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62	62	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55	55	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50	50	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45	45	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41	41	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31468	31468	31468
5°	30619	30481	31433
10°	29969	29837	31361
15°	28422	29294	31184
20°	27075	27989	30707
25°	25754	26856	29924
30°	23927	25351	28253
35°	21454	23297	24781
40°	19438	19479	19375
45°	16252	14394	14038
50°	12276	10131	5742
55°	9233	8101	3619
60°	8580	7462	3488
65°	7982	7447	3493
70°	7303	7303	3438
75°	6926	7114	3322
80°	6401	6722	3411
85°	5581	5860	3726

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 16630 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.2	5.7
10°-20°	559.9	15.7
20°-30°	793.9	22.2
30°-40°	817.9	22.9
40°-50°	571.3	16.0
50°-60°	274.1	7.7
60°-70°	192.3	5.4
70°-80°	120.2	3.4
80°-90°	37.2	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1557.0	43.6
0°-40°	2374.9	66.5
0°-60°	3220.2	90.2
0°-90°	3570.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3570.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2200	2200	2200	2200	2200	
5°	2132	2129	2123	2178	2189	202
15°	1919	1933	1978	2035	2106	540
25°	1632	1648	1701	1816	1896	746
35°	1228	1262	1334	1362	1419	774
45°	803	822	712	675	694	619
55°	370	352	325	208	145	347
65°	236	220	220	167	103	234
75°	125	124	129	111	60	132
85°	34	34	36	35	23	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2199.7	2199.7	2199.7	2199.7	2199.7
2.5°	2191.2	2184.4	2167.9	2198.0	2195.7
5°	2132.2	2129.4	2122.6	2178.1	2188.9
7.5°	2098.8	2093.1	2085.2	2146.4	2176.4
10°	2063.1	2069.9	2054.0	2110.1	2158.9
12.5°	1989.4	2007.5	2029.0	2072.7	2137.3
15°	1919.1	1933.2	1978.0	2034.7	2105.6
17.5°	1853.3	1869.7	1908.3	1993.3	2068.7
20°	1778.5	1801.1	1838.5	1947.4	2017.1
22.5°	1701.4	1722.3	1769.4	1886.2	1963.8
25°	1631.6	1648.1	1701.4	1816.4	1895.8
27.5°	1539.2	1569.8	1620.3	1731.4	1814.7
30°	1448.5	1474.6	1534.7	1628.2	1710.4
32.5°	1339.1	1377.1	1443.4	1514.8	1583.4
35°	1228.5	1262.0	1334.0	1361.8	1419.0
37.5°	1148.0	1157.1	1197.9	1194.5	1226.8
40°	1040.9	1059.0	1043.1	1000.6	1037.5
42.5°	925.2	946.8	882.7	833.4	846.4
45°	803.3	822.0	711.5	675.2	693.9
47.5°	697.9	696.2	573.7	549.4	523.3
50°	551.6	569.8	455.2	409.9	258.0
52.5°	430.9	437.7	375.3	261.9	169.5
55°	370.2	352.1	324.8	208.1	145.1
57.5°	328.8	306.1	288.0	193.3	132.7
60°	299.9	274.4	260.8	183.7	121.9
62.5°	267.0	247.2	242.1	175.2	112.3
65°	235.8	220.5	220.0	167.2	103.2
67.5°	204.7	196.2	198.4	157.6	93.0
70°	174.6	172.9	174.6	145.1	82.2
72.5°	149.1	147.4	151.9	129.3	70.3
75°	125.3	123.6	128.7	111.1	60.1
77.5°	99.8	100.9	104.3	92.4	50.5
80°	77.7	77.7	81.6	72.6	41.4
82.5°	55.6	56.1	58.4	53.3	32.3
85°	34.0	34.0	35.7	35.1	22.7
87.5°	11.3	13.0	15.3	16.4	11.3
90°	0.0	0.0	0.0	0.0	0.0



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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	17.63	18.98	17.99	19.30	19.61	13.96	15.31	14.33	15.63	15.94
	3H	19.37	20.57	19.75	20.90	21.27	15.94	17.14	16.32	17.47	17.84
	4H	20.04	21.17	20.44	21.52	21.90	16.64	17.77	17.04	18.12	18.50
	6H	20.55	21.58	20.96	21.95	22.35	17.17	18.20	17.58	18.57	18.97
	8H	20.72	21.70	21.15	22.09	22.50	17.35	18.34	17.78	18.73	19.13
	12H	20.83	21.77	21.26	22.15	22.58	17.49	18.43	17.92	18.82	19.25
4H	2H	18.16	19.29	18.56	19.64	20.02	15.58	16.71	15.99	17.06	17.44
	3H	20.14	21.07	20.55	21.47	21.87	17.76	18.69	18.17	19.10	19.50
	4H	20.94	21.77	21.37	22.19	22.64	18.64	19.48	19.08	19.90	20.34
	6H	21.58	22.31	22.04	22.75	23.22	19.29	20.01	19.75	20.45	20.92
	8H	21.80	22.48	22.27	22.93	23.40	19.49	20.17	19.96	20.62	21.09
	12H	21.96	22.56	22.44	23.04	23.51	19.65	20.25	20.14	20.73	21.21
8H	4H	21.22	21.90	21.69	22.35	22.82	19.29	19.97	19.76	20.41	20.88
	6H	22.01	22.56	22.51	23.06	23.54	20.15	20.71	20.65	21.20	21.68
	8H	22.31	22.81	22.83	23.32	23.81	20.48	20.98	21.00	21.49	21.98
	12H	22.54	22.98	23.06	23.48	24.05	20.74	21.18	21.26	21.68	22.25
12H	4H	21.24	21.84	21.73	22.32	22.80	19.36	19.96	19.85	20.44	20.92
	6H	22.06	22.56	22.58	23.07	23.56	20.29	20.79	20.81	21.30	21.79
	8H	22.42	22.86	22.94	23.36	23.93	20.70	21.14	21.22	21.64	22.21