

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: P892846

Luminaire Tested: 2MB-5HL-LVRA-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892846
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-L835
Description: 5000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

Summary

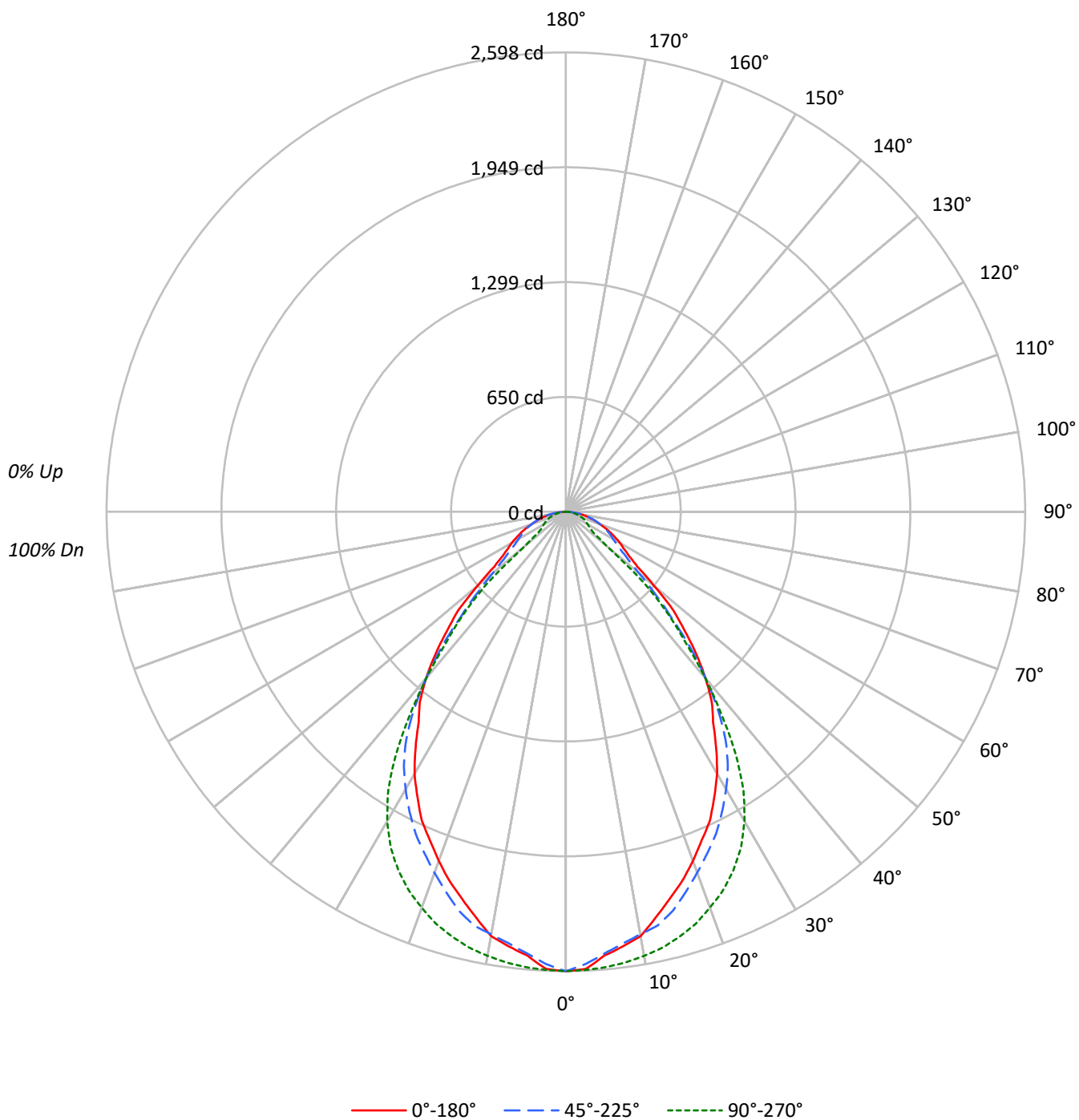
Lumens per Lamp: N/A
Luminaire Lumens: 4217.0 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 33.7
Input Voltage (V): 120
Input Current (Ain): 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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	101	108	105	102	99	101	98	96		97	95	93		93
2	103	96	91	86	101	95	90	85	91	87	83		88	85	82		85
3	96	87	80	75	94	86	80	75	83	78	73		80	76	72		78
4	89	79	72	66	87	78	71	66	76	70	65		73	68	64		71
5	83	72	65	59	81	71	64	59	69	63	58		67	62	58		66
6	78	66	59	53	76	65	58	53	64	57	53		62	57	52		61
7	73	61	54	48	71	60	53	48	59	52	48		58	52	47		56
8	68	57	49	44	67	56	49	44	55	48	44		53	48	43		52
9	64	52	45	40	63	52	45	40	51	44	40		50	44	40		49
10	61	49	42	37	60	48	42	37	47	41	37		47	41	37		46

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	37170	37170	37170
5°	36167	36005	37130
10°	35399	35243	37043
15°	33572	34604	36836
20°	31982	33063	36273
25°	30421	31722	35348
30°	28263	29945	33374
35°	25343	27518	29273
40°	22960	23011	22886
45°	19197	17002	16583
50°	14502	11967	6781
55°	10907	9570	4275
60°	10137	8815	4120
65°	9431	8794	4126
70°	8629	8629	4061
75°	8180	8401	3924
80°	7554	7942	4028
85°	6598	6927	4399

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 19644 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.0	5.7
10°-20°	661.3	15.7
20°-30°	937.8	22.2
30°-40°	966.1	22.9
40°-50°	674.8	16.0
50°-60°	323.8	7.7
60°-70°	227.2	5.4
70°-80°	142.0	3.4
80°-90°	43.9	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°	1839.1	43.6
0°-40°	2805.3	66.5
0°-60°	3803.9	90.2
0°-90°	4217.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4217.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2598	2598	2598	2598	2598	
5°	2519	2515	2507	2573	2586	238
15°	2267	2284	2336	2404	2487	638
25°	1927	1947	2010	2146	2239	881
35°	1451	1491	1576	1609	1676	914
45°	949	971	840	798	820	731
55°	437	416	384	246	171	410
65°	279	260	260	198	122	276
75°	148	146	152	131	71	156
85°	40	40	42	42	27	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2598.3	2598.3	2598.3	2598.3	2598.3
2.5°	2588.3	2580.3	2560.8	2596.3	2593.6
5°	2518.6	2515.3	2507.3	2572.9	2585.6
7.5°	2479.1	2472.4	2463.1	2535.4	2570.9
10°	2436.9	2445.0	2426.2	2492.5	2550.1
12.5°	2349.9	2371.3	2396.8	2448.3	2524.7
15°	2266.8	2283.6	2336.5	2403.5	2487.2
17.5°	2189.2	2208.6	2254.1	2354.6	2443.6
20°	2100.8	2127.6	2171.8	2300.3	2382.7
22.5°	2009.7	2034.5	2090.1	2228.0	2319.8
25°	1927.3	1946.7	2009.7	2145.6	2239.4
27.5°	1818.2	1854.3	1913.9	2045.2	2143.6
30°	1711.0	1741.8	1812.8	1923.3	2020.4
32.5°	1581.8	1626.6	1705.0	1789.4	1870.4
35°	1451.2	1490.7	1575.7	1608.6	1676.2
37.5°	1356.1	1366.8	1415.0	1411.0	1449.2
40°	1229.5	1251.0	1232.2	1182.0	1225.5
42.5°	1092.9	1118.4	1042.7	984.4	999.8
45°	948.9	971.0	840.4	797.6	819.7
47.5°	824.4	822.4	677.7	648.9	618.1
50°	651.6	673.0	537.7	484.2	304.7
52.5°	509.0	517.0	443.3	309.4	200.2
55°	437.3	415.9	383.7	245.8	171.4
57.5°	388.4	361.6	340.2	228.4	156.7
60°	354.3	324.1	308.1	217.0	144.0
62.5°	315.4	292.0	286.0	206.9	132.6
65°	278.6	260.5	259.8	197.6	121.9
67.5°	241.8	231.7	234.4	186.2	109.8
70°	206.3	204.3	206.3	171.4	97.1
72.5°	176.1	174.1	179.5	152.7	83.0
75°	148.0	146.0	152.0	131.3	71.0
77.5°	117.9	119.2	123.2	109.2	59.6
80°	91.7	91.7	96.4	85.7	48.9
82.5°	65.6	66.3	69.0	62.9	38.2
85°	40.2	40.2	42.2	41.5	26.8
87.5°	13.4	15.4	18.1	19.4	13.4
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	18.21	19.56	18.57	19.87	20.19	14.54	15.90	14.91	16.21	16.52
	3H	19.95	21.15	20.33	21.48	21.85	16.52	17.72	16.90	18.05	18.42
	4H	20.62	21.75	21.02	22.10	22.48	17.22	18.35	17.62	18.70	19.08
	6H	21.13	22.16	21.54	22.53	22.93	17.74	18.78	18.16	19.15	19.55
	8H	21.30	22.28	21.73	22.67	23.08	17.93	18.92	18.36	19.31	19.71
	12H	21.41	22.35	21.84	22.73	23.16	18.07	19.01	18.50	19.39	19.82
4H	2H	18.74	19.87	19.14	20.22	20.60	16.16	17.29	16.56	17.64	18.02
	3H	20.72	21.65	21.13	22.05	22.45	18.34	19.27	18.75	19.67	20.08
	4H	21.52	22.35	21.95	22.77	23.21	19.22	20.06	19.66	20.47	20.92
	6H	22.16	22.89	22.62	23.33	23.80	19.86	20.59	20.33	21.03	21.50
	8H	22.38	23.06	22.85	23.50	23.97	20.07	20.75	20.54	21.20	21.67
	12H	22.54	23.14	23.02	23.62	24.09	20.23	20.83	20.72	21.31	21.79
8H	4H	21.80	22.48	22.27	22.93	23.40	19.87	20.55	20.34	20.99	21.46
	6H	22.59	23.14	23.09	23.64	24.12	20.73	21.29	21.23	21.78	22.26
	8H	22.89	23.39	23.41	23.90	24.39	21.06	21.56	21.58	22.07	22.56
	12H	23.12	23.56	23.64	24.06	24.63	21.32	21.76	21.84	22.26	22.83
12H	4H	21.82	22.42	22.30	22.90	23.37	19.94	20.54	20.43	21.02	21.50
	6H	22.64	23.14	23.16	23.65	24.14	20.87	21.37	21.39	21.88	22.37
	8H	23.00	23.44	23.52	23.94	24.51	21.28	21.72	21.79	22.22	22.79