

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: P892742

Luminaire Tested: 2MB-4HL-LVR-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-4HL-LVR-UNV-L835
Description: 4000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

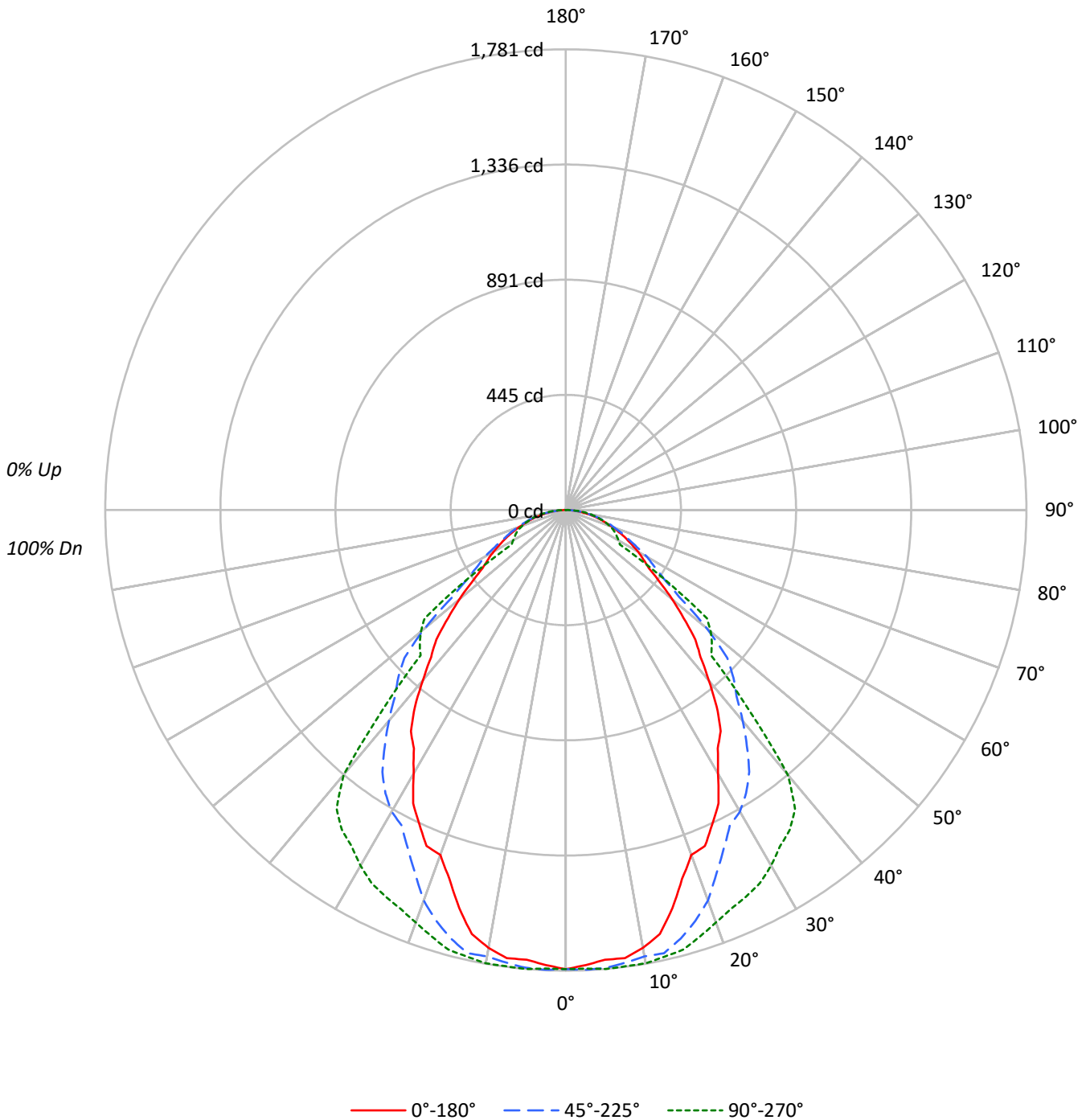
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3617.0 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.32 / 1.24
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 27.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 6.5
Total Harmonic Distortion (THDi): 0.99
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P892742
CATALOG NUMBER: 2MB-4HL-LVR-UNV-L835

Luminous Intensity Polar Plot





TEST NUMBER: P892742

CATALOG NUMBER: 2MB-4HL-LVR-UNV-L835

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	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	89	89	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	77	77	77	75
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	68	68	68	66
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	60	60	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	47	47	47	46
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	53	47	43	43	43	43	41
8	65	53	45	40	64	52	45	39	51	44	39	50	44	39	49	43	39	39	39	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	35	35	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	32	32	32	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25391	25391	25391
5°	25054	25512	25573
10°	24965	25453	25844
15°	23587	25404	26051
20°	21599	24451	25831
25°	21148	22805	26027
30°	19439	22242	26225
35°	18234	21594	26362
40°	16047	19875	24942
45°	14326	18540	16076
50°	11947	15890	16282
55°	9784	11523	11460
60°	9253	10357	6729
65°	8588	9014	7166
70°	7939	8432	7520
75°	7429	8031	7755
80°	6780	7472	8098
85°	6073	6483	8962

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 18540 cd/sqm



TEST NUMBER: P892742
 CATALOG NUMBER: 2MB-4HL-LVR-UNV-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	4.7
10°-20°	474.9	13.1
20°-30°	685.0	18.9
30°-40°	776.9	21.5
40°-50°	647.0	17.9
50°-60°	418.2	11.6
60°-70°	247.9	6.9
70°-80°	151.2	4.2
80°-90°	47.2	1.3
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°	1328.6	36.7
0°-40°	2105.5	58.2
0°-60°	3170.7	87.7
0°-90°	3617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1775	1775	1775	1775	1775	
5°	1745	1766	1777	1787	1781	166
15°	1593	1645	1715	1743	1759	444
25°	1340	1387	1445	1638	1649	613
35°	1044	1080	1236	1403	1510	642
45°	708	758	916	842	795	538
55°	392	430	462	555	460	365
65°	254	260	266	237	212	252
75°	134	138	145	153	140	142
85°	37	37	40	45	55	42
90°	0	0	0	0	0	



TEST NUMBER: P892742

CATALOG NUMBER: 2MB-4HL-LVR-UNV-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1774.9	1774.9	1774.9	1774.9	1774.9
2.5°	1760.6	1776.6	1779.1	1793.4	1774.1
5°	1744.7	1765.7	1776.6	1786.7	1780.8
7.5°	1747.2	1759.0	1764.8	1782.5	1779.1
10°	1718.6	1742.2	1752.2	1773.2	1779.1
12.5°	1679.2	1709.4	1754.8	1750.6	1768.2
15°	1592.6	1644.7	1715.3	1743.0	1759.0
17.5°	1495.2	1553.2	1665.7	1731.2	1727.9
20°	1418.8	1462.4	1606.1	1698.5	1696.8
22.5°	1406.2	1416.2	1521.2	1675.8	1669.1
25°	1339.8	1386.8	1444.8	1638.0	1648.9
27.5°	1278.5	1320.5	1374.2	1590.1	1626.2
30°	1176.8	1249.1	1346.5	1538.9	1587.6
32.5°	1092.8	1162.6	1297.8	1475.9	1541.4
35°	1044.1	1080.2	1236.5	1402.8	1509.5
37.5°	958.4	1025.6	1150.0	1317.1	1455.7
40°	859.3	936.6	1064.3	1241.5	1335.6
42.5°	771.1	833.3	976.9	1098.7	1048.3
45°	708.1	757.7	916.4	842.5	794.6
47.5°	617.4	680.4	846.7	692.2	766.1
50°	536.8	591.4	714.0	654.4	731.6
52.5°	458.6	510.7	552.7	617.4	688.0
55°	392.3	430.1	462.0	555.2	459.5
57.5°	356.2	367.9	404.0	396.5	247.8
60°	323.4	328.4	362.0	268.0	235.2
62.5°	286.4	295.7	309.1	251.2	222.6
65°	253.7	260.4	266.3	236.9	211.7
67.5°	221.8	228.5	234.4	220.1	198.2
70°	189.8	194.0	201.6	198.2	179.8
72.5°	161.3	164.6	173.9	176.4	162.1
75°	134.4	137.8	145.3	152.9	140.3
77.5°	108.4	110.9	119.3	125.2	121.0
80°	82.3	86.5	90.7	98.3	98.3
82.5°	60.5	61.3	65.5	73.1	76.4
85°	37.0	37.0	39.5	45.4	54.6
87.5°	16.0	16.0	17.6	19.3	27.7
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P892742
 CATALOG NUMBER: 2MB-4HL-LVR-UNV-L835

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	18.59	20.05	18.95	20.36	20.68	18.56	20.02	18.93	20.34	20.65
	3H	20.19	21.49	20.57	21.82	22.19	20.04	21.34	20.41	21.67	22.04
	4H	20.79	22.02	21.19	22.37	22.75	20.74	21.96	21.14	22.31	22.69
	6H	21.25	22.38	21.67	22.75	23.15	21.36	22.49	21.77	22.86	23.25
	8H	21.41	22.49	21.84	22.88	23.28	21.60	22.68	22.03	23.07	23.47
	12H	21.52	22.55	21.95	22.93	23.36	21.81	22.83	22.24	23.22	23.65
4H	2H	19.19	20.41	19.59	20.76	21.14	19.16	20.39	19.56	20.74	21.12
	3H	21.00	22.02	21.42	22.42	22.82	20.92	21.93	21.33	22.33	22.73
	4H	21.74	22.65	22.17	23.07	23.51	21.79	22.70	22.22	23.11	23.55
	6H	22.33	23.12	22.79	23.57	24.03	22.54	23.34	23.00	23.78	24.24
	8H	22.53	23.28	23.00	23.72	24.19	22.84	23.58	23.31	24.03	24.50
	12H	22.68	23.34	23.16	23.82	24.29	23.10	23.76	23.58	24.24	24.71
8H	4H	22.06	22.80	22.52	23.24	23.71	22.10	22.84	22.56	23.28	23.75
	6H	22.78	23.39	23.28	23.88	24.36	23.00	23.61	23.50	24.11	24.58
	8H	23.06	23.61	23.57	24.12	24.61	23.39	23.94	23.91	24.45	24.94
	12H	23.28	23.77	23.79	24.26	24.83	23.74	24.23	24.25	24.73	25.29
12H	4H	22.09	22.75	22.57	23.23	23.70	22.12	22.78	22.61	23.26	23.74
	6H	22.84	23.40	23.36	23.91	24.40	23.05	23.60	23.57	24.12	24.60
	8H	23.18	23.67	23.69	24.17	24.73	23.50	23.99	24.02	24.49	25.05