

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: P892862

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-5)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-5HL-RFLW-UNV-L835
Description: 5000 Lumen 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 3500K
Light Source: -
Ballast/Driver: -

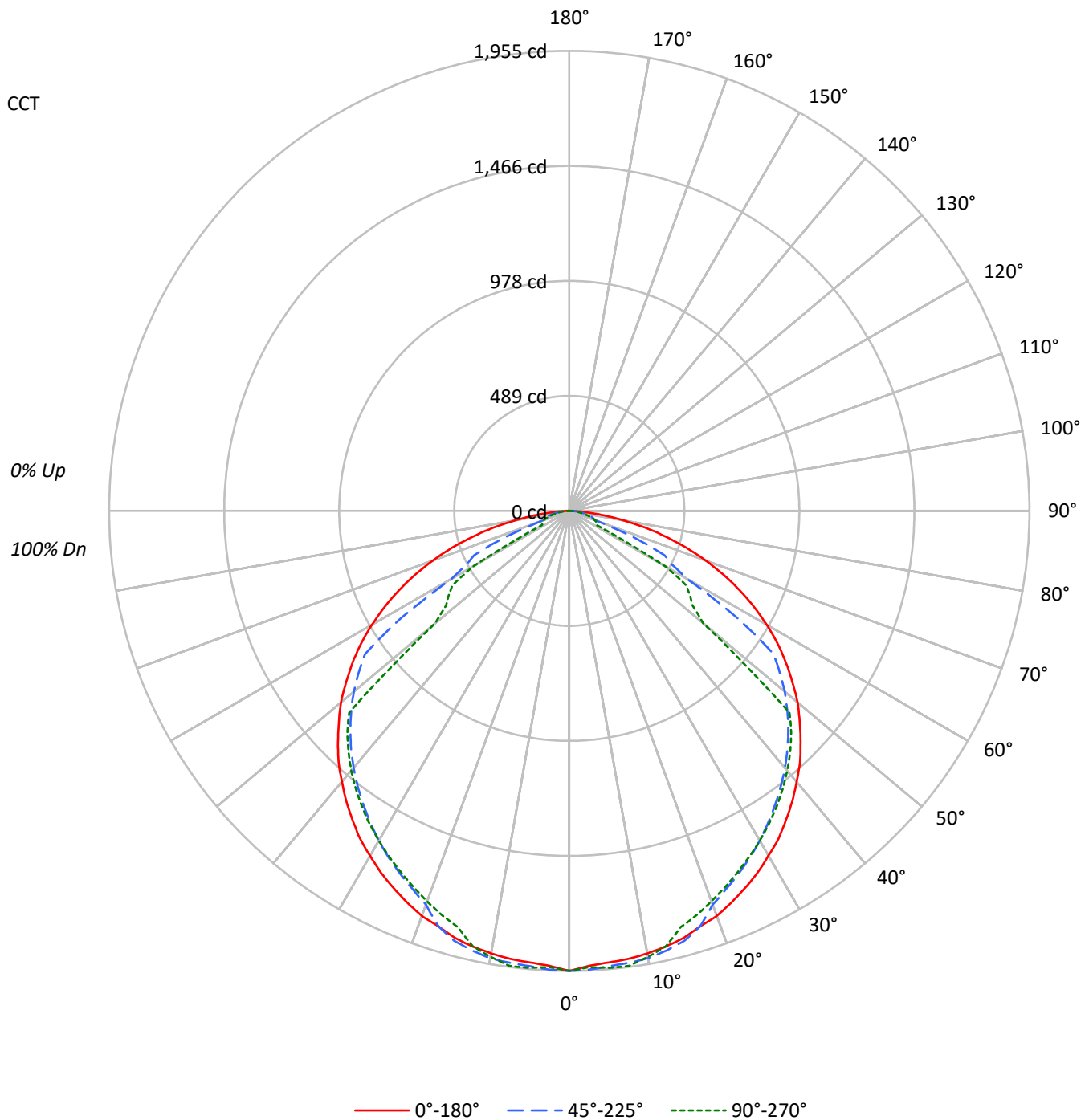
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4976.0 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.24 / 1.38
Luminous Opening: Rectangular (W 0.21' 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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	86	86	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73	73	73	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63	63	63	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54	54	54	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47	47	47	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	42	42	42	42
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37	37	37	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33	33	33	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30	30	30	30
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27	27	27	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	51041	51041	51041
5°	50481	50887	51089
10°	50625	51182	51007
15°	50774	51104	49487
20°	50899	49482	49052
25°	50922	49006	48782
30°	51018	48781	48781
35°	51148	48605	48923
40°	51218	48573	49105
45°	51314	48571	49228
50°	51453	48525	30158
55°	51153	48226	28453
60°	50576	30092	24594
65°	49366	27589	7802
70°	47121	8801	8801
75°	42932	9835	8715
80°	35152	9998	7999
85°	24893	9945	7309

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 51453 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.0	3.7
10°-20°	527.9	10.6
20°-30°	795.9	16.0
30°-40°	967.1	19.4
40°-50°	1018.7	20.5
50°-60°	800.0	16.1
60°-70°	450.2	9.0
70°-80°	187.4	3.8
80°-90°	43.8	0.9
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°	1508.8	30.3
0°-40°	2475.9	49.8
0°-60°	4294.6	86.3
0°-90°	4976.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4976.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1955	1955	1955	1955	1955	
5°	1926	1948	1942	1941	1949	184
15°	1878	1901	1891	1834	1831	530
25°	1768	1781	1701	1691	1693	816
35°	1605	1550	1525	1529	1535	1005
45°	1390	1312	1316	1331	1333	1073
55°	1124	1043	1060	621	625	1004
65°	799	735	447	121	126	788
75°	426	255	98	90	86	450
85°	83	37	33	28	24	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1955.0	1955.0	1955.0	1955.0	1955.0
2.5°	1935.0	1962.7	1951.7	1940.6	1940.6
5°	1926.2	1948.3	1941.7	1940.6	1949.4
7.5°	1920.6	1939.5	1937.3	1939.5	1950.6
10°	1909.6	1930.6	1930.6	1922.9	1924.0
12.5°	1896.3	1917.3	1912.9	1899.6	1895.1
15°	1878.5	1900.7	1890.7	1834.2	1830.9
17.5°	1850.8	1877.4	1850.8	1797.6	1800.9
20°	1832.0	1851.9	1781.0	1763.3	1765.5
22.5°	1800.9	1818.7	1740.0	1727.8	1730.0
25°	1767.7	1781.0	1701.2	1691.2	1693.4
27.5°	1733.3	1736.7	1661.3	1654.6	1656.9
30°	1692.3	1677.9	1618.1	1613.6	1618.1
32.5°	1653.5	1620.3	1571.5	1572.6	1578.2
35°	1604.8	1550.5	1525.0	1529.4	1535.0
37.5°	1556.0	1490.6	1476.2	1485.1	1489.5
40°	1502.8	1433.0	1425.2	1434.1	1440.8
42.5°	1450.7	1374.3	1372.0	1385.3	1388.7
45°	1389.8	1312.2	1315.5	1331.0	1333.3
47.5°	1327.7	1249.0	1256.8	1271.2	1269.0
50°	1266.8	1182.5	1194.7	1173.7	742.5
52.5°	1194.7	1113.8	1127.1	699.3	659.4
55°	1123.8	1042.9	1059.5	620.6	625.1
57.5°	1049.5	968.6	846.7	584.1	588.5
60°	968.6	893.3	576.3	546.4	471.0
62.5°	885.5	814.6	488.7	307.0	129.7
65°	799.1	734.8	446.6	120.8	126.3
67.5°	708.2	653.9	305.9	117.5	123.0
70°	617.3	507.6	115.3	113.0	115.3
72.5°	523.1	396.8	107.5	103.1	102.0
75°	425.6	254.9	97.5	89.8	86.4
77.5°	332.5	147.4	83.1	74.3	69.8
80°	233.8	75.4	66.5	56.5	53.2
82.5°	151.8	55.4	48.8	42.1	39.9
85°	83.1	36.6	33.2	27.7	24.4
87.5°	36.6	22.2	18.8	14.4	11.1
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	26.33	27.89	26.69	28.20	28.52	22.71	24.27	23.08	24.59	24.90
	3H	28.24	29.64	28.62	29.97	30.33	22.85	24.25	23.23	24.58	24.94
	4H	28.84	30.15	29.24	30.50	30.88	22.97	24.28	23.37	24.63	25.00
	6H	29.21	30.42	29.62	30.78	31.18	23.07	24.28	23.48	24.64	25.03
	8H	29.31	30.46	29.74	30.85	31.25	23.10	24.25	23.53	24.64	25.04
	12H	29.37	30.47	29.80	30.85	31.28	23.12	24.22	23.55	24.60	25.03
4H	2H	26.47	27.78	26.87	28.13	28.51	23.39	24.70	23.79	25.05	25.43
	3H	28.49	29.57	28.90	29.97	30.37	23.59	24.67	24.00	25.07	25.47
	4H	29.15	30.12	29.58	30.54	30.97	23.75	24.72	24.18	25.14	25.57
	6H	29.57	30.41	30.03	30.85	31.31	23.91	24.75	24.37	25.20	25.65
	8H	29.70	30.48	30.16	30.93	31.39	23.96	24.75	24.42	25.19	25.66
	12H	29.79	30.49	30.27	30.97	31.44	24.00	24.71	24.49	25.19	25.66
8H	4H	29.09	29.88	29.55	30.32	30.79	23.97	24.76	24.44	25.21	25.67
	6H	29.51	30.16	30.01	30.66	31.13	24.18	24.83	24.68	25.33	25.80
	8H	29.65	30.24	30.17	30.75	31.24	24.27	24.85	24.78	25.36	25.85
	12H	29.78	30.30	30.29	30.79	31.35	24.35	24.87	24.86	25.36	25.93
12H	4H	29.06	29.77	29.55	30.25	30.72	23.99	24.69	24.47	25.17	25.64
	6H	29.47	30.06	29.99	30.57	31.06	24.20	24.79	24.72	25.30	25.79
	8H	29.64	30.16	30.15	30.65	31.21	24.33	24.85	24.84	25.34	25.91