

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: P894182

Luminaire Tested: 4MB-SC3-ASYMR-UNV-CC93-HI-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2410-248-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-SC3-ASYMR-UNV-CC93-HI-5000K
Description: Selectable 4FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 90CRI, 5000K CCT, HI luv setting
Light Source: -
Ballast/Driver: -

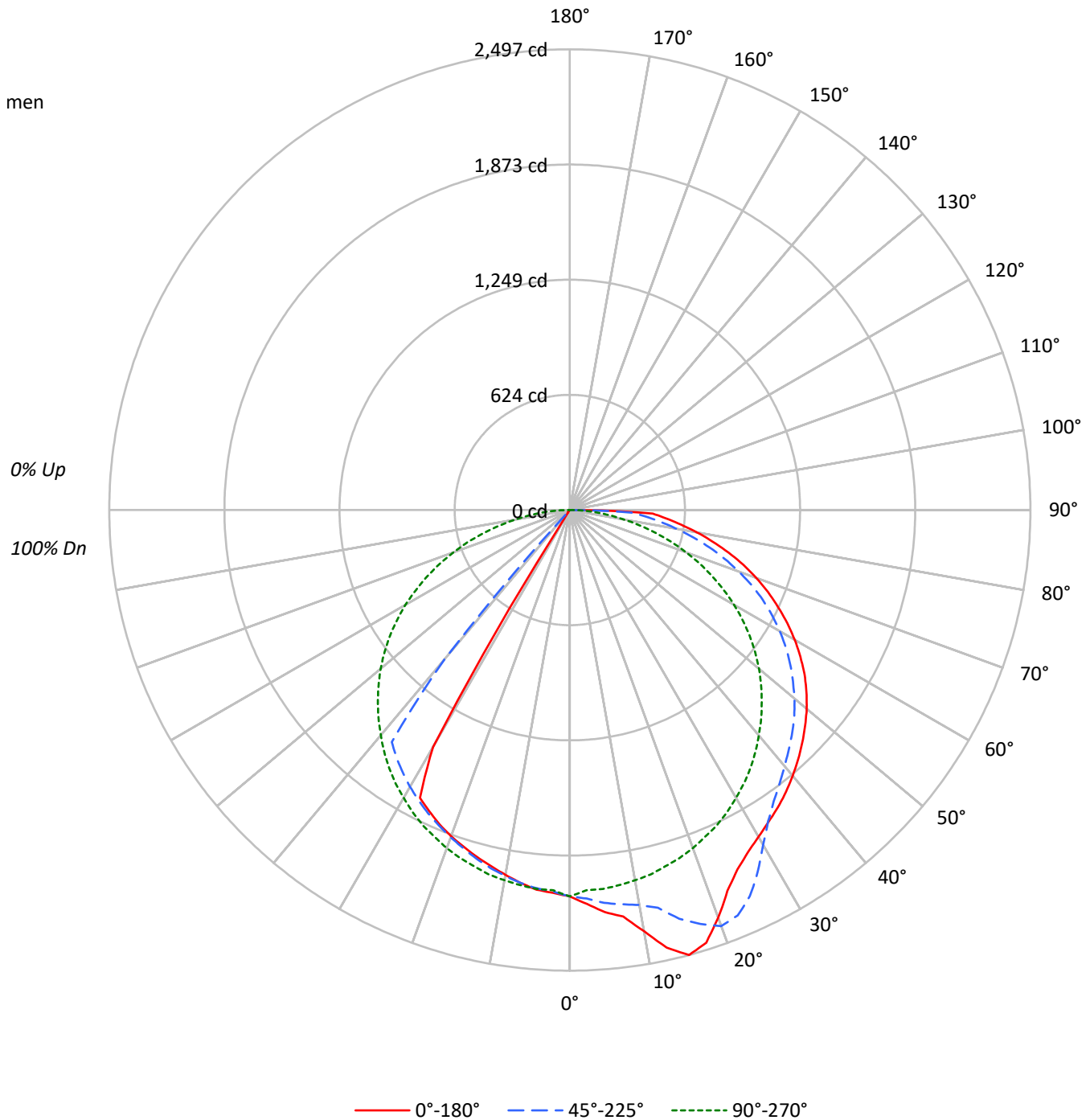
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5666.0 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.25
Luminous Opening: Rectangular (W 0.21' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 50.7
Input Voltage (V):
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	71	71	71	69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	53	50
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	46	46	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	41	41	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	36	36	36	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	33	33	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	27193	27193	27193	27193	27193
5°	28516	27859	26875	26828	26922
10°	30555	28656	26869	26553	26474
15°	33570	30829	26878	26297	26168
20°	32501	33164	26949	26088	26005
25°	30794	33098	27014	26000	25811
30°	30662	31418	27011	25968	22228
35°	31181	30553	27056	25972	304
40°	31859	30700	27020	17912	203
45°	32730	31321	27026	331	132
50°	33873	32104	27039	242	48
55°	35163	33019	26963	163	27
60°	36569	34140	26726	62	31
65°	38290	35488	26239	74	74
70°	40847	36975	25411	91	91
75°	44712	39354	24313	241	120
80°	52472	44037	22516	359	179
85°	78084	61830	21082	536	358

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 133901 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.7	3.5
10°-20°	599.2	10.6
20°-30°	921.0	16.3
30°-40°	987.1	17.4
40°-50°	896.5	15.8
50°-60°	817.7	14.4
60°-70°	608.3	10.7
70°-80°	428.2	7.6
80°-90°	207.4	3.7
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°	1720.9	30.4
0°-40°	2707.9	47.8
0°-60°	4422.1	78.0
0°-90°	5666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5666.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2094	2094	2094	2094	2094	
5°	2188	2137	2062	2058	2065	212
15°	2497	2293	1999	1956	1947	689
25°	2149	2310	1886	1815	1802	999
35°	1967	1927	1707	1638	19	1232
45°	1782	1706	1472	18	7	1377
55°	1553	1458	1191	7	1	1387
65°	1246	1155	854	2	2	1234
75°	891	784	485	5	2	940
85°	524	415	142	4	2	527
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2094.2	2094.2	2094.2	2094.2	2094.2	2094.2	2094.2	2094.2	2094.2
2.5°	2137.3	2113.4	2107.4	2124.2	2063.0	2103.8	2070.2	2077.4	2077.4
5°	2187.7	2154.1	2137.3	2132.5	2061.8	2089.4	2058.2	2058.2	2065.4
7.5°	2222.5	2185.3	2155.3	2143.3	2051.0	2075.0	2039.0	2039.0	2039.0
10°	2317.3	2247.7	2173.3	2151.7	2037.8	2055.8	2013.8	2016.2	2007.8
12.5°	2428.8	2366.4	2208.1	2148.1	2023.4	2031.8	1987.4	1986.2	1976.6
15°	2497.2	2450.4	2293.3	2143.3	1999.4	2006.6	1956.2	1952.6	1946.6
17.5°	2458.8	2451.6	2352.0	2139.7	1977.8	1971.8	1921.5	1917.9	1913.1
20°	2352.0	2370.0	2400.0	2132.5	1950.2	1938.2	1887.9	1885.5	1881.9
22.5°	2233.3	2251.3	2378.4	2144.5	1916.7	1902.3	1851.9	1849.5	1844.7
25°	2149.3	2149.3	2310.1	2173.3	1885.5	1859.1	1814.7	1811.1	1801.5
27.5°	2090.6	2079.8	2208.1	2205.7	1845.9	1815.9	1775.1	1771.5	1759.5
30°	2045.0	2027.0	2095.4	2221.3	1801.5	1769.1	1731.9	1728.3	1482.5
32.5°	2004.2	1985.0	2000.6	2234.5	1757.1	1718.8	1686.4	1203.0	52.8
35°	1967.0	1945.4	1927.4	2224.9	1706.8	1668.4	1638.4	34.8	19.2
37.5°	1925.1	1908.3	1867.5	2174.5	1652.8	1614.4	1585.6	19.2	16.8
40°	1879.5	1863.9	1811.1	2100.2	1594.0	1561.6	1056.7	16.8	12.0
42.5°	1832.7	1820.7	1758.3	1992.2	1535.2	1502.9	33.6	13.2	9.6
45°	1782.3	1771.5	1705.6	1861.5	1471.7	1441.7	18.0	9.6	7.2
47.5°	1730.7	1715.2	1650.4	1721.2	1406.9	1376.9	15.6	7.2	4.8
50°	1676.8	1660.0	1589.2	1597.6	1338.5	1308.6	12.0	4.8	2.4
52.5°	1616.8	1596.4	1524.4	1486.1	1266.6	1239.0	9.6	2.4	1.2
55°	1553.2	1530.4	1458.5	1388.9	1191.0	1159.8	7.2	2.4	1.2
57.5°	1482.5	1457.3	1388.9	1296.6	1110.7	784.4	4.8	2.4	1.2
60°	1408.1	1382.9	1314.6	1210.2	1029.1	54.0	2.4	2.4	1.2
62.5°	1328.9	1302.6	1236.6	1122.6	941.5	44.4	2.4	2.4	2.4
65°	1246.2	1215.0	1155.0	1032.7	854.0	37.2	2.4	2.4	2.4
67.5°	1163.4	1123.8	1067.5	940.3	764.0	31.2	2.4	2.4	2.4
70°	1075.9	1032.7	973.9	846.8	669.3	25.2	2.4	2.4	2.4
72.5°	985.9	943.9	880.4	752.0	580.5	19.2	2.4	2.4	2.4
75°	891.2	852.8	784.4	657.3	484.6	14.4	4.8	2.4	2.4
77.5°	792.8	762.8	686.1	560.1	391.0	9.6	4.8	2.4	2.4
80°	701.7	668.1	588.9	461.8	301.1	7.2	4.8	3.6	2.4
82.5°	608.1	578.1	499.0	371.8	215.9	6.0	4.8	3.6	2.4
85°	524.1	495.4	415.0	290.3	141.5	4.8	3.6	3.6	2.4
87.5°	449.8	423.4	344.2	212.3	80.4	3.6	3.6	3.6	2.4
90°	0.0	0.0	0.0	0.0	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	26.01	27.62	26.37	27.94	28.25	21.44	23.05	21.81	23.37	23.68
	3H	28.45	29.92	28.83	30.24	30.60	22.08	23.55	22.46	23.87	24.23
	4H	29.58	30.96	29.98	31.31	31.68	22.23	23.61	22.63	23.96	24.33
	6H	30.67	31.96	31.08	32.32	32.71	22.27	23.55	22.68	23.92	24.31
	8H	31.20	32.43	31.63	32.82	33.22	22.26	23.48	22.68	23.87	24.27
	12H	31.77	32.95	32.20	33.33	33.76	22.24	23.42	22.67	23.80	24.23
4H	2H	26.66	28.05	27.06	28.39	28.77	22.57	23.95	22.97	24.30	24.67
	3H	29.35	30.52	29.76	30.92	31.32	23.91	25.08	24.32	25.47	25.87
	4H	30.65	31.71	31.08	32.12	32.56	24.45	25.51	24.88	25.92	26.36
	6H	31.93	32.86	32.38	33.30	33.76	24.72	25.65	25.17	26.09	26.55
	8H	32.56	33.43	33.02	33.88	34.34	24.76	25.63	25.22	26.08	26.54
	12H	33.24	34.04	33.72	34.51	34.98	24.77	25.56	25.25	26.03	26.50
8H	4H	31.01	31.89	31.47	32.33	32.80	25.39	26.27	25.85	26.71	27.17
	6H	32.49	33.23	32.99	33.72	34.19	25.98	26.72	26.47	27.21	27.68
	8H	33.28	33.94	33.79	34.45	34.93	26.16	26.82	26.67	27.33	27.81
	12H	34.17	34.76	34.67	35.25	35.81	26.26	26.85	26.77	27.34	27.90
12H	4H	31.05	31.84	31.53	32.32	32.79	25.61	26.40	26.09	26.88	27.34
	6H	32.58	33.25	33.09	33.75	34.24	26.33	27.00	26.84	27.50	27.99
	8H	33.46	34.05	33.97	34.54	35.10	26.64	27.24	27.15	27.73	28.28