

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: P894171

Luminaire Tested: 4MB-SC3-ASYMR-UNV-CC83-HI-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894171
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-CC83-HI-3500K
Description: Selectable 4FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 80CRI, 3500K CCT, HI luv setting
Light Source: -
Ballast/Driver: -

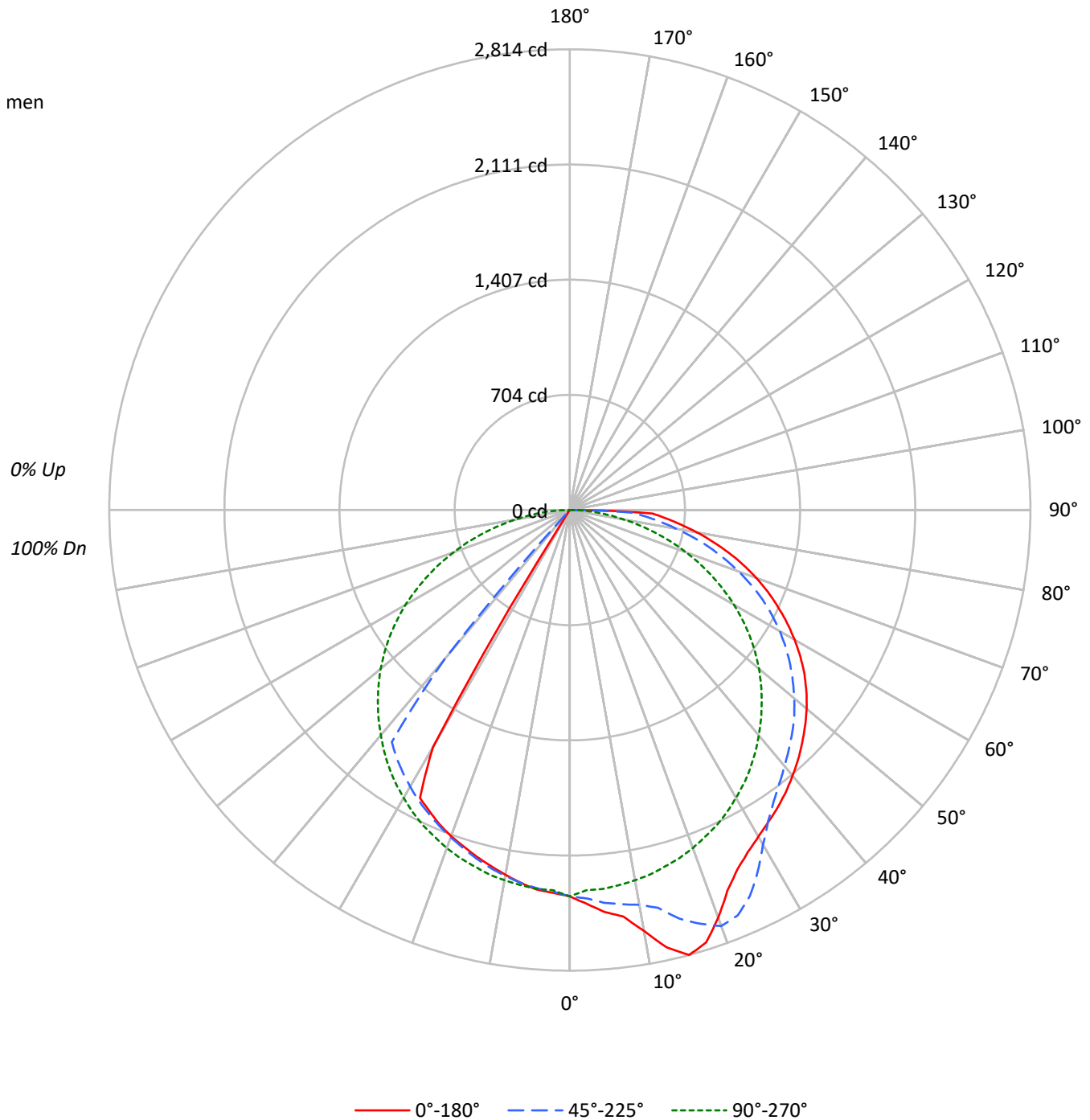
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6384.0 lumens
Efficiency: N/A
Efficacy: 125.9 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°	30638	30638	30638	30638	30638
5°	32130	31390	30281	30227	30333
10°	34426	32287	30274	29918	29828
15°	37824	34736	30285	29630	29485
20°	36620	37366	30365	29393	29299
25°	34697	37291	30437	29295	29082
30°	34547	35399	30435	29259	25044
35°	35132	34425	30483	29263	342
40°	35895	34590	30444	20182	229
45°	36878	35289	30451	373	149
50°	38166	36172	30467	273	55
55°	39620	37202	30379	183	32
60°	41202	38464	30112	70	36
65°	43141	39986	29564	83	83
70°	46022	41660	28630	103	103
75°	50376	44341	27393	271	135
80°	59120	49615	25365	404	202
85°	87992	69666	23763	611	402

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 150870 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.1	3.5
10°-20°	675.1	10.6
20°-30°	1037.7	16.3
30°-40°	1112.1	17.4
40°-50°	1010.1	15.8
50°-60°	921.3	14.4
60°-70°	685.4	10.7
70°-80°	482.4	7.6
80°-90°	233.7	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°	1938.9	30.4
0°-40°	3051.1	47.8
0°-60°	4982.5	78.0
0°-90°	6384.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6384.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2360	2360	2360	2360	2360	
5°	2465	2408	2323	2319	2327	239
15°	2814	2584	2253	2204	2193	777
25°	2422	2603	2124	2045	2030	1126
35°	2216	2172	1923	1846	22	1388
45°	2008	1922	1658	20	8	1552
55°	1750	1643	1342	8	1	1563
65°	1404	1301	962	3	3	1390
75°	1004	884	546	5	3	1059
85°	591	468	160	4	3	593
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°	2359.5	2359.5	2359.5	2359.5	2359.5	2359.5	2359.5	2359.5	2359.5
2.5°	2408.2	2381.2	2374.4	2393.3	2324.4	2370.4	2332.5	2340.6	2340.6
5°	2465.0	2427.1	2408.2	2402.8	2323.1	2354.1	2319.0	2319.0	2327.1
7.5°	2504.1	2462.2	2428.5	2414.9	2310.9	2337.9	2297.4	2297.4	2297.4
10°	2610.9	2532.5	2448.7	2424.4	2296.0	2316.3	2269.0	2271.7	2262.2
12.5°	2736.6	2666.3	2487.9	2420.4	2279.8	2289.3	2239.3	2237.9	2227.1
15°	2813.6	2760.9	2583.9	2414.9	2252.8	2260.9	2204.1	2200.1	2193.3
17.5°	2770.4	2762.3	2650.1	2410.9	2228.5	2221.7	2164.9	2160.9	2155.5
20°	2650.1	2670.4	2704.1	2402.8	2197.4	2183.9	2127.1	2124.4	2120.3
22.5°	2516.3	2536.6	2679.8	2416.3	2159.5	2143.3	2086.6	2083.9	2078.5
25°	2421.7	2421.7	2602.8	2448.7	2124.4	2094.7	2044.7	2040.6	2029.8
27.5°	2355.5	2343.3	2487.9	2485.2	2079.8	2046.0	2000.1	1996.0	1982.5
30°	2304.1	2283.9	2360.9	2502.8	2029.8	1993.3	1951.4	1947.4	1670.3
32.5°	2258.2	2236.6	2254.1	2517.7	1979.8	1936.6	1900.1	1355.5	59.5
35°	2216.3	2192.0	2171.7	2506.8	1923.0	1879.8	1846.0	39.2	21.6
37.5°	2169.0	2150.1	2104.1	2450.1	1862.2	1819.0	1786.5	21.6	18.9
40°	2117.6	2100.1	2040.6	2366.3	1796.0	1759.5	1190.6	18.9	13.5
42.5°	2064.9	2051.4	1981.1	2244.7	1729.8	1693.3	37.8	14.9	10.8
45°	2008.2	1996.0	1921.7	2097.4	1658.2	1624.4	20.3	10.8	8.1
47.5°	1950.1	1932.5	1859.5	1939.3	1585.2	1551.4	17.6	8.1	5.4
50°	1889.3	1870.3	1790.6	1800.1	1508.2	1474.4	13.5	5.4	2.7
52.5°	1821.7	1798.7	1717.6	1674.4	1427.1	1396.0	10.8	2.7	1.4
55°	1750.1	1724.4	1643.3	1564.9	1341.9	1306.8	8.1	2.7	1.4
57.5°	1670.3	1641.9	1564.9	1460.9	1251.4	883.8	5.4	2.7	1.4
60°	1586.5	1558.2	1481.1	1363.6	1159.5	60.8	2.7	2.7	1.4
62.5°	1497.3	1467.6	1393.3	1264.9	1060.8	50.0	2.7	2.7	2.7
65°	1404.1	1369.0	1301.4	1163.6	962.2	41.9	2.7	2.7	2.7
67.5°	1310.9	1266.3	1202.7	1059.5	860.8	35.1	2.7	2.7	2.7
70°	1212.2	1163.6	1097.3	954.1	754.1	28.4	2.7	2.7	2.7
72.5°	1110.8	1063.6	991.9	847.3	654.1	21.6	2.7	2.7	2.7
75°	1004.1	960.8	883.8	740.6	546.0	16.2	5.4	2.7	2.7
77.5°	893.3	859.5	773.0	631.1	440.6	10.8	5.4	2.7	2.7
80°	790.6	752.7	663.5	520.3	339.2	8.1	5.4	4.1	2.7
82.5°	685.2	651.4	562.2	418.9	243.3	6.8	5.4	4.1	2.7
85°	590.6	558.1	467.6	327.0	159.5	5.4	4.1	4.1	2.7
87.5°	506.8	477.0	387.9	239.2	90.5	4.1	4.1	4.1	2.7
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	26.42	28.04	26.79	28.35	28.66	21.85	23.47	22.22	23.78	24.10
	3H	28.87	30.33	29.25	30.66	31.02	22.50	23.96	22.87	24.29	24.65
	4H	29.99	31.38	30.39	31.72	32.10	22.64	24.02	23.04	24.37	24.75
	6H	31.09	32.37	31.50	32.73	33.13	22.68	23.97	23.09	24.33	24.72
	8H	31.62	32.84	32.04	33.23	33.63	22.67	23.90	23.09	24.29	24.69
	12H	32.18	33.36	32.61	33.74	34.17	22.65	23.83	23.08	24.21	24.64
4H	2H	27.08	28.46	27.48	28.81	29.18	22.98	24.36	23.38	24.71	25.09
	3H	29.77	30.94	30.18	31.33	31.73	24.32	25.49	24.73	25.89	26.29
	4H	31.06	32.13	31.49	32.54	32.97	24.86	25.92	25.29	26.33	26.77
	6H	32.34	33.28	32.80	33.72	34.17	25.13	26.07	25.59	26.51	26.96
	8H	32.97	33.85	33.43	34.29	34.76	25.17	26.05	25.63	26.49	26.96
	12H	33.66	34.45	34.14	34.92	35.39	25.18	25.97	25.66	26.45	26.92
8H	4H	31.43	32.30	31.89	32.75	33.21	25.81	26.68	26.27	27.12	27.59
	6H	32.91	33.65	33.40	34.13	34.61	26.40	27.13	26.89	27.62	28.09
	8H	33.69	34.36	34.20	34.86	35.35	26.57	27.24	27.08	27.74	28.23
	12H	34.58	35.18	35.09	35.66	36.22	26.68	27.27	27.18	27.76	28.32
12H	4H	31.47	32.26	31.95	32.73	33.20	26.02	26.82	26.50	27.29	27.76
	6H	33.00	33.66	33.50	34.17	34.65	26.75	27.41	27.25	27.92	28.40
	8H	33.88	34.47	34.38	34.96	35.52	27.06	27.65	27.56	28.14	28.70