

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: P894172

Luminaire Tested: 4MB-SC3-ASYMR-UNV-CC83-HI-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894172
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-4000K
Description: Selectable 4FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 80CRI, 4000K CCT, HI luv setting
Light Source: -
Ballast/Driver: -

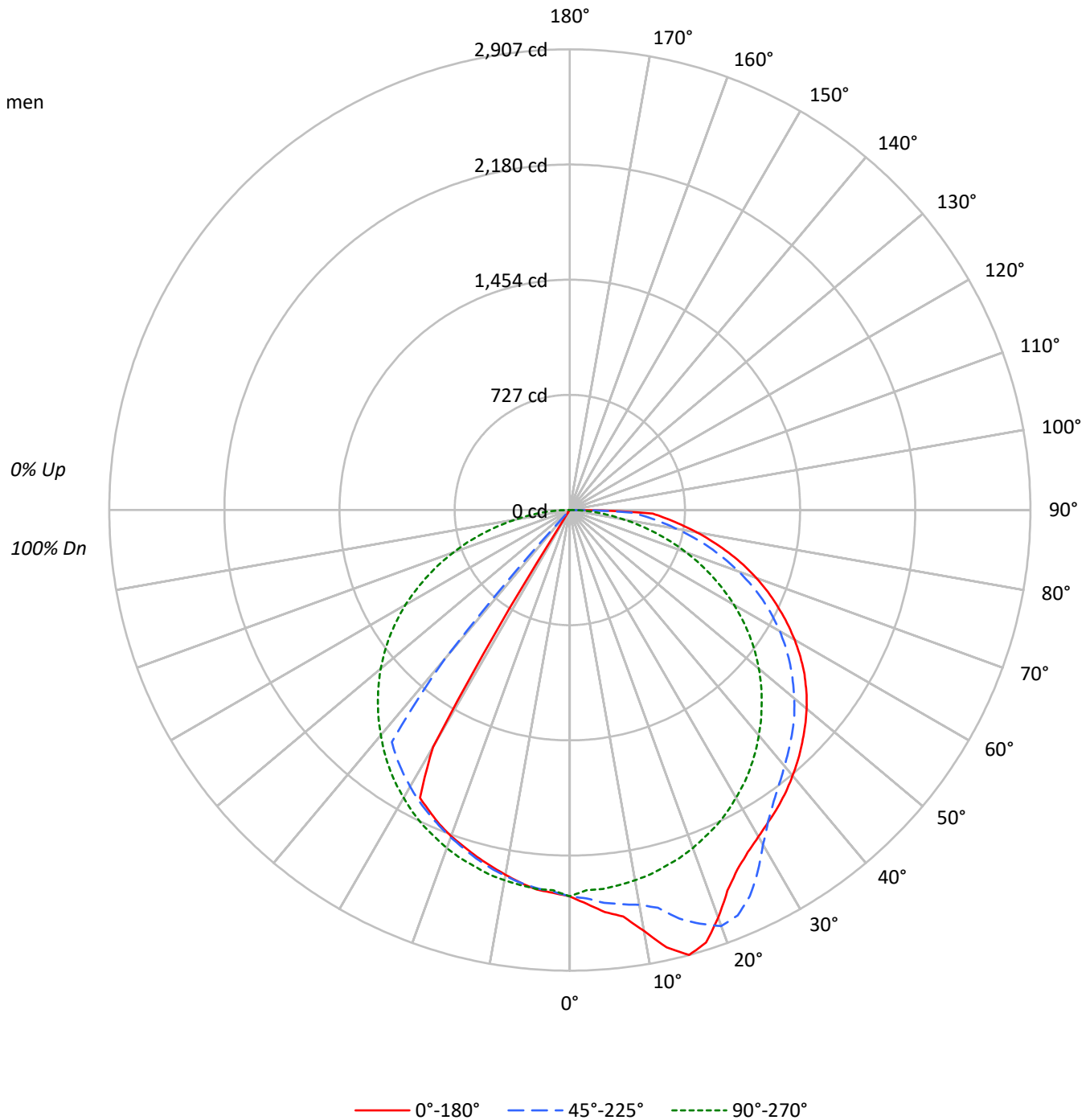
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6595.0 lumens
Efficiency: N/A
Efficacy: 130.1 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	100	100	100	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83	83	83	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69	69	69	69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59	59	59	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50	50	50	50
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44	44	44	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39	39	39	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	35	35	35	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31	31	31	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28	28	28	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26	26	26	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	31651	31651	31651	31651	31651
5°	33192	32428	31281	31226	31335
10°	35564	33355	31274	30907	30814
15°	39074	35884	31285	30610	30459
20°	37831	38602	31368	30365	30268
25°	35843	38524	31443	30262	30043
30°	35690	36569	31441	30226	25872
35°	36293	35564	31491	30229	353
40°	37082	35734	31451	20848	237
45°	38097	36456	31457	384	154
50°	39427	37368	31473	283	57
55°	40929	38432	31384	190	32
60°	42565	39737	31107	73	36
65°	44567	41307	30541	86	86
70°	47545	43038	29575	106	106
75°	52042	45806	28296	281	140
80°	61071	51260	26202	419	209
85°	90897	71961	24538	626	417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 155841 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.6	3.5
10°-20°	697.4	10.6
20°-30°	1072.0	16.3
30°-40°	1148.9	17.4
40°-50°	1043.5	15.8
50°-60°	951.8	14.4
60°-70°	708.1	10.7
70°-80°	498.4	7.6
80°-90°	241.4	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°	2003.0	30.4
0°-40°	3151.9	47.8
0°-60°	5147.1	78.0
0°-90°	6595.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6595.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2438	2438	2438	2438	2438	
5°	2546	2488	2400	2396	2404	247
15°	2907	2669	2327	2277	2266	802
25°	2502	2689	2195	2112	2097	1163
35°	2290	2244	1987	1907	22	1434
45°	2075	1985	1713	21	8	1603
55°	1808	1698	1386	8	1	1615
65°	1450	1344	994	3	3	1436
75°	1037	913	564	6	3	1094
85°	610	483	165	4	3	613
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°	2437.5	2437.5	2437.5	2437.5	2437.5	2437.5	2437.5	2437.5	2437.5
2.5°	2487.8	2459.9	2452.9	2472.4	2401.2	2448.7	2409.6	2418.0	2418.0
5°	2546.4	2507.3	2487.8	2482.2	2399.8	2431.9	2395.6	2395.6	2404.0
7.5°	2586.9	2543.6	2508.7	2494.8	2387.3	2415.2	2373.3	2373.3	2373.3
10°	2697.2	2616.2	2529.7	2504.5	2371.9	2392.9	2344.0	2346.8	2337.0
12.5°	2827.0	2754.4	2570.2	2500.4	2355.2	2364.9	2313.3	2311.9	2300.7
15°	2906.6	2852.2	2669.3	2494.8	2327.2	2335.6	2277.0	2272.8	2265.8
17.5°	2861.9	2853.6	2737.7	2490.6	2302.1	2295.1	2236.5	2232.3	2226.7
20°	2737.7	2758.6	2793.5	2482.2	2270.0	2256.0	2197.4	2194.6	2190.4
22.5°	2599.5	2620.4	2768.4	2496.2	2230.9	2214.2	2155.5	2152.7	2147.1
25°	2501.7	2501.7	2688.8	2529.7	2194.6	2163.9	2112.2	2108.1	2096.9
27.5°	2433.3	2420.8	2570.2	2567.4	2148.5	2113.6	2066.2	2062.0	2048.0
30°	2380.3	2359.3	2438.9	2585.5	2096.9	2059.2	2015.9	2011.7	1725.5
32.5°	2332.8	2310.5	2328.6	2600.9	2045.2	2000.6	1962.9	1400.3	61.4
35°	2289.5	2264.4	2243.5	2589.7	1986.6	1941.9	1907.0	40.5	22.3
37.5°	2240.7	2221.1	2173.7	2531.1	1923.8	1879.1	1845.6	22.3	19.5
40°	2187.6	2169.5	2108.1	2444.5	1855.4	1817.7	1229.9	19.5	14.0
42.5°	2133.2	2119.2	2046.6	2318.9	1787.0	1749.3	39.1	15.4	11.2
45°	2074.6	2062.0	1985.2	2166.7	1713.0	1678.1	20.9	11.2	8.4
47.5°	2014.5	1996.4	1921.0	2003.4	1637.6	1602.7	18.1	8.4	5.6
50°	1951.7	1932.2	1849.8	1859.6	1558.0	1523.1	14.0	5.6	2.8
52.5°	1881.9	1858.2	1774.4	1729.7	1474.2	1442.1	11.2	2.8	1.4
55°	1807.9	1781.4	1697.6	1616.6	1386.3	1350.0	8.4	2.8	1.4
57.5°	1725.5	1696.2	1616.6	1509.1	1292.8	913.0	5.6	2.8	1.4
60°	1639.0	1609.7	1530.1	1408.6	1197.8	62.8	2.8	2.8	1.4
62.5°	1546.8	1516.1	1439.3	1306.7	1095.9	51.7	2.8	2.8	2.8
65°	1450.5	1414.2	1344.4	1202.0	994.0	43.3	2.8	2.8	2.8
67.5°	1354.2	1308.1	1242.5	1094.5	889.3	36.3	2.8	2.8	2.8
70°	1252.3	1202.0	1133.6	985.6	779.0	29.3	2.8	2.8	2.8
72.5°	1147.6	1098.7	1024.7	875.3	675.7	22.3	2.8	2.8	2.8
75°	1037.3	992.6	913.0	765.0	564.0	16.8	5.6	2.8	2.8
77.5°	922.8	887.9	798.5	652.0	455.1	11.2	5.6	2.8	2.8
80°	816.7	777.6	685.5	537.5	350.4	8.4	5.6	4.2	2.8
82.5°	707.8	672.9	580.8	432.8	251.3	7.0	5.6	4.2	2.8
85°	610.1	576.6	483.0	337.8	164.7	5.6	4.2	4.2	2.8
87.5°	523.5	492.8	400.7	247.1	93.5	4.2	4.2	4.2	2.8
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	26.53	28.15	26.90	28.46	28.78	21.97	23.58	22.33	23.90	24.21
	3H	28.98	30.45	29.36	30.77	31.13	22.61	24.07	22.99	24.40	24.76
	4H	30.11	31.49	30.50	31.84	32.21	22.75	24.14	23.15	24.48	24.86
	6H	31.20	32.48	31.61	32.85	33.24	22.80	24.08	23.21	24.44	24.83
	8H	31.73	32.96	32.15	33.35	33.74	22.78	24.01	23.21	24.40	24.80
	12H	32.30	33.47	32.73	33.86	34.28	22.77	23.94	23.19	24.32	24.75
4H	2H	27.19	28.57	27.59	28.92	29.30	23.09	24.48	23.49	24.82	25.20
	3H	29.88	31.05	30.29	31.45	31.85	24.44	25.61	24.85	26.00	26.40
	4H	31.18	32.24	31.61	32.65	33.09	24.97	26.03	25.40	26.45	26.88
	6H	32.46	33.39	32.91	33.83	34.29	25.25	26.18	25.70	26.62	27.08
	8H	33.08	33.96	33.54	34.40	34.87	25.28	26.16	25.74	26.60	27.07
	12H	33.77	34.56	34.25	35.04	35.51	25.30	26.09	25.78	26.56	27.03
8H	4H	31.54	32.42	32.00	32.86	33.32	25.92	26.80	26.38	27.24	27.70
	6H	33.02	33.76	33.51	34.25	34.72	26.51	27.25	27.00	27.73	28.21
	8H	33.81	34.47	34.31	34.98	35.46	26.69	27.35	27.19	27.86	28.34
	12H	34.70	35.29	35.20	35.78	36.34	26.79	27.38	27.29	27.87	28.43
12H	4H	31.58	32.37	32.06	32.85	33.32	26.14	26.93	26.62	27.40	27.87
	6H	33.11	33.78	33.62	34.28	34.77	26.86	27.53	27.37	28.03	28.52
	8H	33.99	34.58	34.50	35.07	35.63	27.17	27.76	27.68	28.25	28.81