

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: P894225

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-SC3-LVR-UNV-CC83-HI-3500K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 3500K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

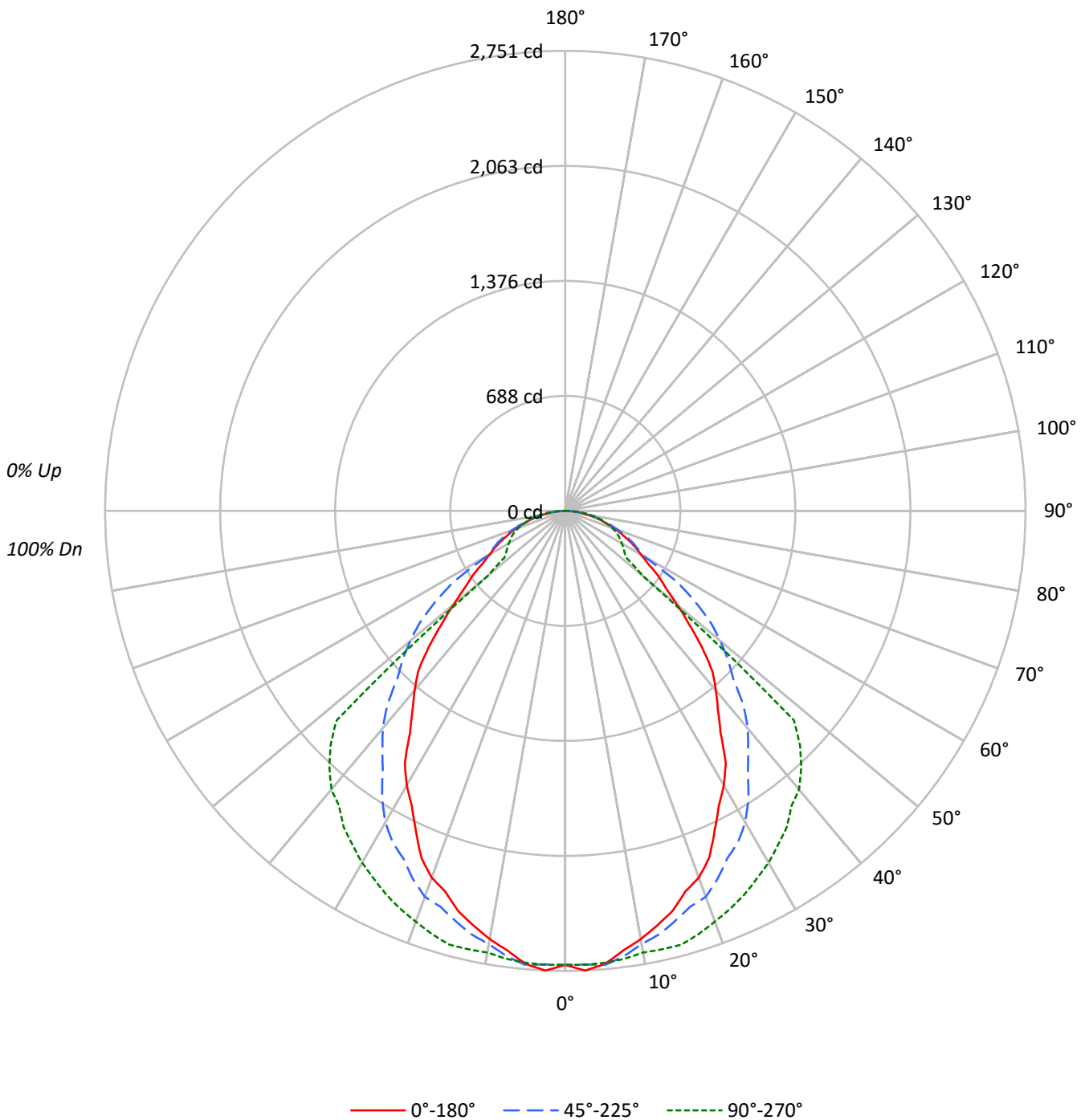
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5794.0 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 50.7
Input Voltage (V): 120
Input Current (A_{in}): 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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19318	19318	19318
5°	19421	19471	19372
10°	18784	19005	19375
15°	18243	18702	19775
20°	17670	18594	19791
25°	16580	17994	19878
30°	15574	17669	19959
35°	14043	16525	20054
40°	13008	15764	20195
45°	11637	14287	19966
50°	9654	13385	6708
55°	8412	11748	5366
60°	7439	7656	5564
65°	7074	7446	5906
70°	6634	7038	6230
75°	6174	6633	6405
80°	5626	6248	6703
85°	4980	5323	7241

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 19966 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.5	4.4
10°-20°	724.5	12.5
20°-30°	1065.7	18.4
30°-40°	1218.7	21.0
40°-50°	1154.0	19.9
50°-60°	635.8	11.0
60°-70°	408.2	7.0
70°-80°	251.9	4.3
80°-90°	77.5	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°	2047.7	35.3
0°-40°	3266.4	56.4
0°-60°	5056.3	87.3
0°-90°	5794.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5794.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2715	2715	2715	2715	2715	
5°	2719	2741	2726	2726	2712	255
15°	2477	2507	2539	2672	2685	695
25°	2112	2206	2292	2442	2532	973
35°	1617	1756	1902	2178	2309	1022
45°	1156	1266	1420	1822	1984	885
55°	678	711	947	488	433	606
65°	420	434	442	394	351	416
75°	225	229	241	254	233	239
85°	61	61	65	75	89	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2715.1	2715.1	2715.1	2715.1	2715.1
2.5°	2751.1	2758.1	2713.7	2712.3	2716.5
5°	2719.2	2741.4	2726.2	2726.2	2712.3
7.5°	2651.3	2688.7	2684.6	2716.5	2701.2
10°	2600.0	2630.5	2630.5	2713.7	2681.8
12.5°	2539.0	2573.6	2593.1	2680.4	2684.6
15°	2476.6	2507.1	2539.0	2672.1	2684.6
17.5°	2386.4	2441.9	2482.1	2612.5	2652.7
20°	2333.7	2367.0	2455.8	2561.2	2613.9
22.5°	2246.4	2294.9	2380.9	2498.8	2576.4
25°	2111.9	2206.2	2292.1	2441.9	2532.0
27.5°	1987.1	2057.8	2235.3	2393.4	2479.3
30°	1895.6	1951.0	2150.7	2322.7	2429.4
32.5°	1784.6	1874.8	2037.0	2253.3	2367.0
35°	1616.8	1755.5	1902.5	2178.4	2308.8
37.5°	1499.0	1594.7	1794.3	2100.8	2221.4
40°	1400.5	1487.9	1697.3	2003.7	2174.3
42.5°	1302.1	1372.8	1575.2	1931.6	2086.9
45°	1156.5	1266.0	1419.9	1822.1	1984.3
47.5°	1003.9	1120.4	1318.7	1729.2	1854.0
50°	872.2	965.1	1209.2	1544.7	606.0
52.5°	757.1	843.1	1092.7	558.8	457.6
55°	678.1	711.4	947.1	488.1	432.6
57.5°	583.8	637.9	794.6	464.5	410.5
60°	522.8	546.3	538.0	441.0	391.0
62.5°	474.2	490.9	488.1	417.4	368.9
65°	420.2	434.0	442.3	393.8	350.8
67.5°	366.1	378.6	391.0	364.7	325.9
70°	318.9	327.3	338.3	330.0	299.5
72.5°	270.4	280.1	287.0	294.0	264.9
75°	224.6	228.8	241.3	253.8	233.0
77.5°	183.0	187.2	195.5	209.4	198.3
80°	137.3	141.4	152.5	163.6	163.6
82.5°	97.1	99.8	106.8	122.0	129.0
85°	61.0	61.0	65.2	74.9	88.7
87.5°	23.6	23.6	27.7	33.3	44.4
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	18.24	19.72	18.60	20.03	20.35	16.04	17.52	16.41	17.84	18.15
	3H	19.76	21.09	20.14	21.42	21.78	18.37	19.70	18.75	20.03	20.39
	4H	20.36	21.60	20.76	21.95	22.33	19.32	20.56	19.72	20.91	21.29
	6H	20.81	21.96	21.23	22.33	22.72	20.11	21.25	20.52	21.62	22.01
	8H	20.96	22.05	21.38	22.44	22.84	20.42	21.51	20.84	21.90	22.30
	12H	21.05	22.10	21.48	22.48	22.91	20.67	21.71	21.10	22.09	22.52
4H	2H	18.79	20.03	19.19	20.38	20.76	17.14	18.39	17.54	18.74	19.12
	3H	20.56	21.59	20.97	21.99	22.39	19.59	20.62	20.00	21.02	21.42
	4H	21.28	22.21	21.71	22.62	23.06	20.66	21.58	21.09	22.00	22.44
	6H	21.87	22.67	22.32	23.11	23.58	21.54	22.35	22.00	22.79	23.25
	8H	22.05	22.81	22.52	23.25	23.72	21.90	22.65	22.36	23.09	23.56
	12H	22.19	22.86	22.67	23.34	23.82	22.18	22.86	22.67	23.34	23.81
8H	4H	21.59	22.34	22.05	22.79	23.25	21.04	21.80	21.51	22.24	22.71
	6H	22.30	22.92	22.80	23.41	23.89	22.08	22.70	22.58	23.19	23.67
	8H	22.56	23.12	23.07	23.63	24.12	22.52	23.09	23.04	23.60	24.08
	12H	22.77	23.27	23.28	23.76	24.33	22.91	23.41	23.42	23.90	24.46
12H	4H	21.62	22.30	22.11	22.78	23.25	21.08	21.75	21.56	22.23	22.70
	6H	22.36	22.93	22.88	23.44	23.93	22.14	22.70	22.66	23.22	23.70
	8H	22.68	23.18	23.19	23.67	24.24	22.65	23.15	23.16	23.64	24.21