

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: P894236

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894236
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-CC93-HI-5000K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 5000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

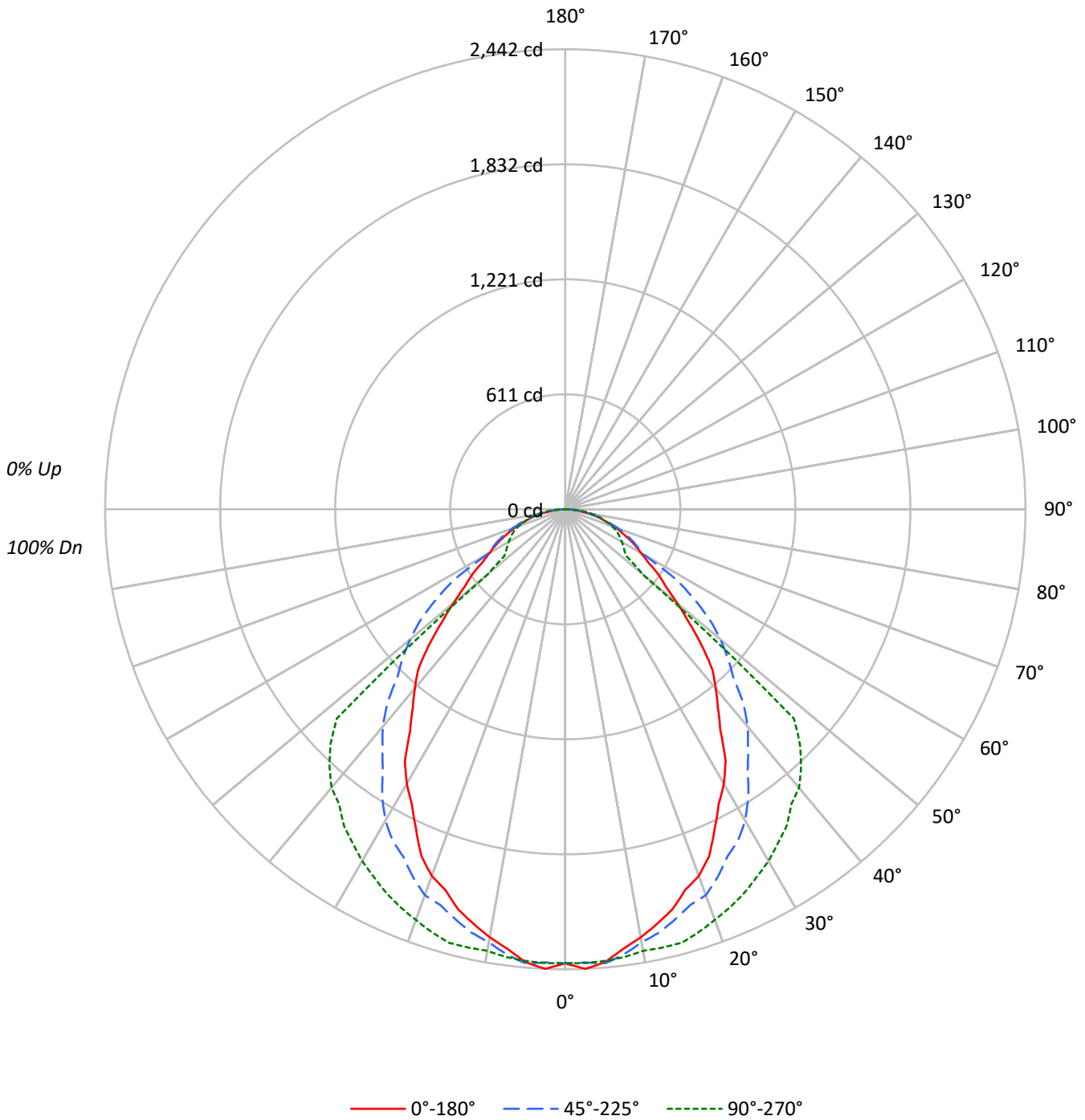
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5142.0 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.33 / 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°	17144	17144	17144
5°	17235	17280	17192
10°	16670	16866	17195
15°	16190	16598	17549
20°	15682	16502	17564
25°	14713	15970	17641
30°	13821	15681	17713
35°	12463	14665	17797
40°	11544	13990	17922
45°	10327	12680	17719
50°	8568	11878	5953
55°	7465	10426	4763
60°	6601	6795	4938
65°	6278	6610	5241
70°	5887	6247	5529
75°	5482	5886	5682
80°	4991	5548	5949
85°	4416	4719	6433

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 17719 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.5	4.4
10°-20°	643.0	12.5
20°-30°	945.8	18.4
30°-40°	1081.6	21.0
40°-50°	1024.2	19.9
50°-60°	564.3	11.0
60°-70°	362.3	7.0
70°-80°	223.6	4.3
80°-90°	68.8	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°	1817.3	35.3
0°-40°	2898.9	56.4
0°-60°	4487.3	87.3
0°-90°	5142.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5142.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2410	2410	2410	2410	2410	
5°	2413	2433	2419	2419	2407	226
15°	2198	2225	2253	2371	2382	617
25°	1874	1958	2034	2167	2247	863
35°	1435	1558	1688	1933	2049	907
45°	1026	1124	1260	1617	1761	785
55°	602	631	840	433	384	538
65°	373	385	393	350	311	369
75°	199	203	214	225	207	212
85°	54	54	58	66	79	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2409.5	2409.5	2409.5	2409.5	2409.5
2.5°	2441.5	2447.7	2408.3	2407.1	2410.8
5°	2413.2	2432.9	2419.4	2419.4	2407.1
7.5°	2352.9	2386.2	2382.5	2410.8	2397.2
10°	2307.4	2334.5	2334.5	2408.3	2380.0
12.5°	2253.3	2284.0	2301.3	2378.8	2382.5
15°	2197.9	2225.0	2253.3	2371.4	2382.5
17.5°	2117.9	2167.1	2202.8	2318.5	2354.2
20°	2071.1	2100.7	2179.4	2273.0	2319.7
22.5°	1993.6	2036.7	2113.0	2217.6	2286.5
25°	1874.2	1957.9	2034.2	2167.1	2247.1
27.5°	1763.5	1826.2	1983.8	2124.0	2200.3
30°	1682.3	1731.5	1908.7	2061.3	2156.0
32.5°	1583.8	1663.8	1807.8	1999.8	2100.7
35°	1434.9	1558.0	1688.4	1933.3	2049.0
37.5°	1330.3	1415.2	1592.4	1864.4	1971.4
40°	1242.9	1320.5	1506.3	1778.2	1929.6
42.5°	1155.6	1218.3	1398.0	1714.3	1852.1
45°	1026.3	1123.6	1260.2	1617.0	1761.0
47.5°	891.0	994.3	1170.3	1534.6	1645.3
50°	774.1	856.5	1073.1	1370.9	537.8
52.5°	671.9	748.2	969.7	495.9	406.1
55°	601.8	631.3	840.5	433.2	384.0
57.5°	518.1	566.1	705.1	412.3	364.3
60°	463.9	484.9	477.5	391.3	347.0
62.5°	420.9	435.6	433.2	370.4	327.3
65°	372.9	385.2	392.6	349.5	311.3
67.5°	324.9	336.0	347.0	323.7	289.2
70°	283.0	290.4	300.3	292.9	265.8
72.5°	240.0	248.6	254.7	260.9	235.0
75°	199.4	203.1	214.1	225.2	206.7
77.5°	162.4	166.1	173.5	185.8	176.0
80°	121.8	125.5	135.4	145.2	145.2
82.5°	86.1	88.6	94.8	108.3	114.4
85°	54.1	54.1	57.8	66.5	78.8
87.5°	20.9	20.9	24.6	29.5	39.4
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	17.82	19.31	18.19	19.62	19.93	15.63	17.11	15.99	17.42	17.74
	3H	19.35	20.68	19.73	21.00	21.37	17.96	19.28	18.33	19.61	19.97
	4H	19.94	21.18	20.34	21.53	21.91	18.91	20.15	19.31	20.50	20.88
	6H	20.40	21.55	20.81	21.91	22.31	19.69	20.84	20.10	21.20	21.60
	8H	20.54	21.63	20.97	22.02	22.43	20.00	21.09	20.43	21.48	21.89
	12H	20.64	21.68	21.07	22.07	22.50	20.25	21.30	20.68	21.68	22.11
4H	2H	18.37	19.62	18.77	19.97	20.35	16.73	17.97	17.13	18.32	18.70
	3H	20.15	21.17	20.56	21.58	21.98	19.18	20.20	19.59	20.60	21.01
	4H	20.87	21.79	21.30	22.21	22.65	20.24	21.17	20.67	21.58	22.02
	6H	21.45	22.26	21.91	22.70	23.16	21.13	21.93	21.59	22.38	22.84
	8H	21.64	22.39	22.10	22.84	23.31	21.48	22.23	21.94	22.68	23.15
	12H	21.78	22.45	22.26	22.93	23.40	21.77	22.44	22.25	22.92	23.39
8H	4H	21.17	21.93	21.64	22.37	22.84	20.63	21.38	21.09	21.83	22.29
	6H	21.88	22.51	22.38	23.00	23.48	21.66	22.29	22.16	22.78	23.26
	8H	22.15	22.71	22.66	23.22	23.71	22.11	22.67	22.62	23.18	23.67
	12H	22.35	22.85	22.86	23.35	23.91	22.49	22.99	23.00	23.48	24.05
12H	4H	21.21	21.88	21.69	22.36	22.83	20.66	21.34	21.15	21.81	22.29
	6H	21.95	22.51	22.46	23.02	23.51	21.73	22.29	22.24	22.80	23.29
	8H	22.27	22.77	22.78	23.26	23.82	22.24	22.73	22.75	23.23	23.79