

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: P894272

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-SC3-LVRF-UNV-CC93-HI-5000K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 5000K CCT
lumen setting
Light Source: -
Ballast/Driver: -

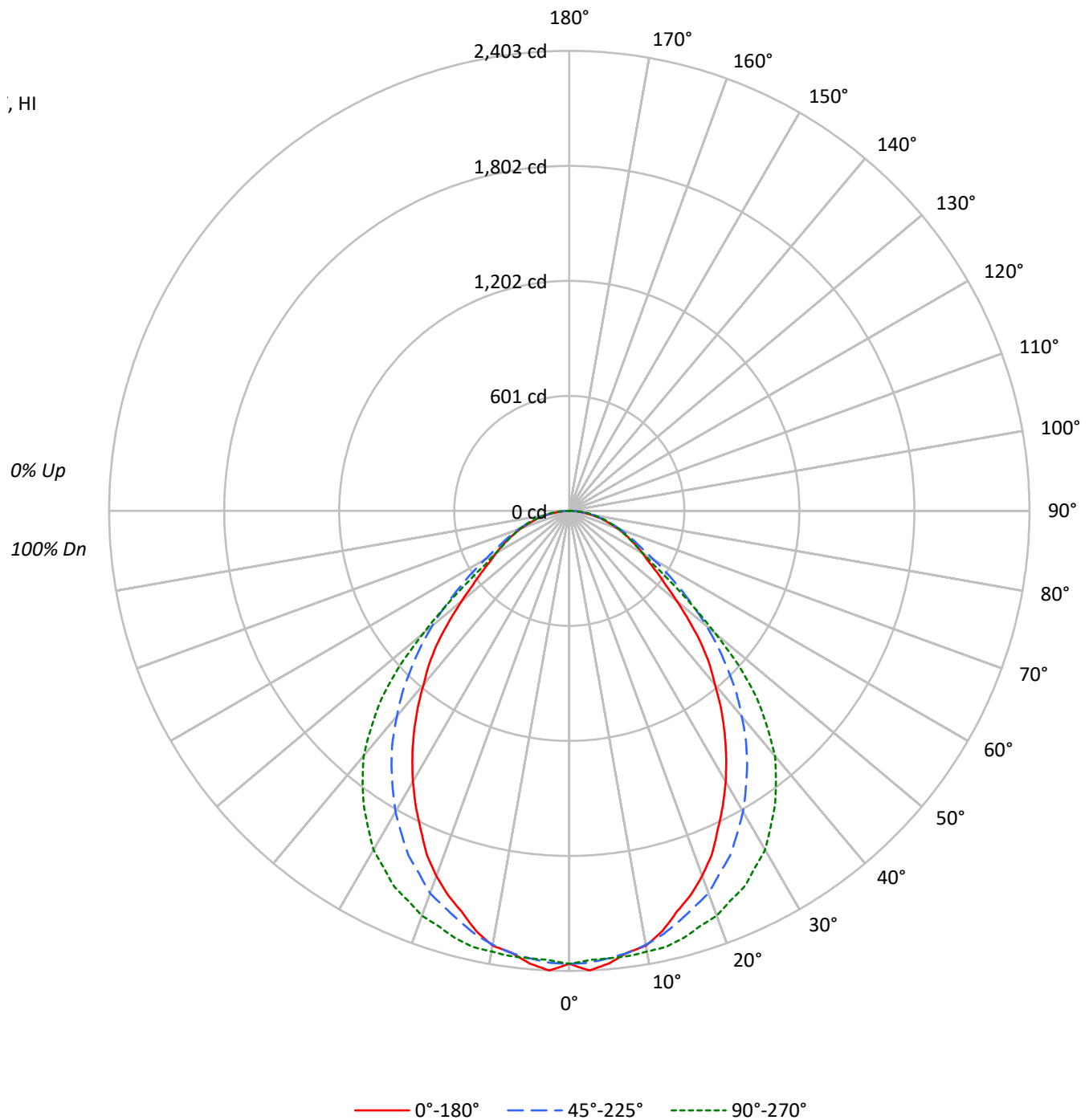
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4917.0 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23
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 (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	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	70	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	60	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	56	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	44	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16833	16833	16833
5°	16950	16757	16757
10°	16657	16631	16888
15°	15968	16339	17010
20°	15361	16097	17038
25°	14410	15598	16999
30°	13413	14909	16799
35°	12278	14063	16264
40°	10992	13004	15517
45°	9755	11773	13951
50°	8116	10363	11004
55°	6913	8729	7997
60°	6267	7213	6320
65°	5903	6317	5882
70°	5554	5860	5733
75°	5174	5581	5479
80°	4737	5142	5294
85°	4114	4523	5927

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13951 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.0	4.6
10°-20°	630.3	12.8
20°-30°	915.3	18.6
30°-40°	1019.2	20.7
40°-50°	900.5	18.3
50°-60°	590.9	12.0
60°-70°	361.8	7.4
70°-80°	210.5	4.3
80°-90°	64.5	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°	1769.6	36.0
0°-40°	2788.8	56.7
0°-60°	4280.1	87.0
0°-90°	4917.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4917.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2366	2366	2366	2366	2366	
5°	2373	2374	2346	2370	2346	224
15°	2168	2192	2218	2306	2309	612
25°	1836	1880	1987	2114	2165	845
35°	1414	1490	1619	1790	1872	882
45°	970	1028	1170	1328	1386	742
55°	557	597	704	698	645	505
65°	351	357	375	364	349	349
75°	188	191	203	207	199	200
85°	50	53	55	63	73	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2365.8	2365.8	2365.8	2365.8	2365.8
2.5°	2402.7	2373.2	2362.1	2373.2	2348.6
5°	2373.2	2374.4	2346.2	2369.5	2346.2
7.5°	2326.5	2342.5	2328.9	2364.6	2346.2
10°	2305.6	2306.8	2301.9	2338.8	2337.5
12.5°	2247.7	2251.4	2265.0	2320.3	2332.6
15°	2167.8	2192.4	2218.2	2305.6	2309.2
17.5°	2105.0	2134.5	2169.0	2262.5	2273.6
20°	2028.7	2041.0	2125.9	2208.4	2250.2
22.5°	1943.8	1967.2	2049.7	2160.4	2202.2
25°	1835.6	1879.9	1986.9	2113.6	2165.3
27.5°	1735.9	1787.6	1898.3	2039.8	2100.1
30°	1632.6	1691.6	1814.7	1953.7	2044.7
32.5°	1525.6	1599.4	1716.2	1876.2	1956.2
35°	1413.6	1489.9	1619.1	1790.1	1872.5
37.5°	1301.6	1375.5	1515.7	1699.0	1772.8
40°	1183.5	1256.1	1400.1	1585.8	1670.7
42.5°	1081.4	1144.2	1291.8	1450.5	1529.2
45°	969.5	1028.5	1170.0	1327.5	1386.5
47.5°	846.4	915.3	1053.1	1182.3	1205.7
50°	733.2	804.6	936.2	1011.3	994.1
52.5°	633.6	693.9	814.4	846.4	805.8
55°	557.3	596.7	703.7	697.6	644.7
57.5°	487.2	511.8	602.8	568.4	517.9
60°	440.4	451.5	506.9	474.9	444.1
62.5°	396.2	401.1	430.6	413.4	390.0
65°	350.6	356.8	375.2	364.2	349.4
67.5°	308.8	311.3	328.5	326.0	307.6
70°	267.0	270.7	281.7	286.7	275.6
72.5°	226.4	230.1	241.1	246.1	236.2
75°	188.2	190.7	203.0	206.7	199.3
77.5°	151.3	156.2	163.6	169.8	161.2
80°	115.6	118.1	125.5	132.9	129.2
82.5°	81.2	84.9	89.8	99.7	102.1
85°	50.4	52.9	55.4	62.7	72.6
87.5°	19.7	20.9	24.6	27.1	35.7
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	17.34	18.82	17.70	19.13	19.45	17.99	19.47	18.36	19.79	20.10
	3H	18.94	20.27	19.32	20.59	20.96	19.43	20.75	19.80	21.08	21.44
	4H	19.56	20.80	19.96	21.15	21.53	20.03	21.27	20.43	21.62	22.00
	6H	20.03	21.17	20.44	21.54	21.93	20.52	21.67	20.93	22.03	22.42
	8H	20.18	21.27	20.61	21.66	22.06	20.72	21.81	21.14	22.20	22.60
	12H	20.28	21.32	20.71	21.71	22.14	20.88	21.93	21.31	22.31	22.74
4H	2H	17.96	19.20	18.36	19.55	19.93	18.48	19.73	18.88	20.08	20.46
	3H	19.78	20.81	20.19	21.21	21.61	20.18	21.21	20.59	21.61	22.01
	4H	20.52	21.45	20.95	21.86	22.30	20.94	21.86	21.37	22.28	22.72
	6H	21.12	21.92	21.58	22.37	22.83	21.57	22.38	22.03	22.82	23.28
	8H	21.31	22.07	21.78	22.51	22.98	21.83	22.58	22.29	23.02	23.49
	12H	21.46	22.13	21.94	22.61	23.08	22.05	22.72	22.53	23.20	23.67
8H	4H	20.84	21.59	21.30	22.04	22.50	21.21	21.96	21.67	22.40	22.87
	6H	21.56	22.18	22.06	22.68	23.15	21.98	22.60	22.48	23.10	23.57
	8H	21.83	22.39	22.35	22.91	23.39	22.33	22.89	22.84	23.40	23.89
	12H	22.05	22.55	22.56	23.04	23.61	22.64	23.14	23.15	23.63	24.20
12H	4H	20.87	21.54	21.36	22.02	22.50	21.23	21.90	21.71	22.38	22.85
	6H	21.63	22.19	22.14	22.70	23.19	22.03	22.59	22.54	23.10	23.59
	8H	21.96	22.46	22.47	22.95	23.51	22.43	22.93	22.94	23.42	23.99