

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: P894250

Luminaire Tested: 4MB-SC3-LVRA-UNV-CC83-MID-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894250
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-SC3-LVRA-UNV-CC83-MID-4000K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 4000K CCT, MI lumen setting
Light Source: -
Ballast/Driver: -

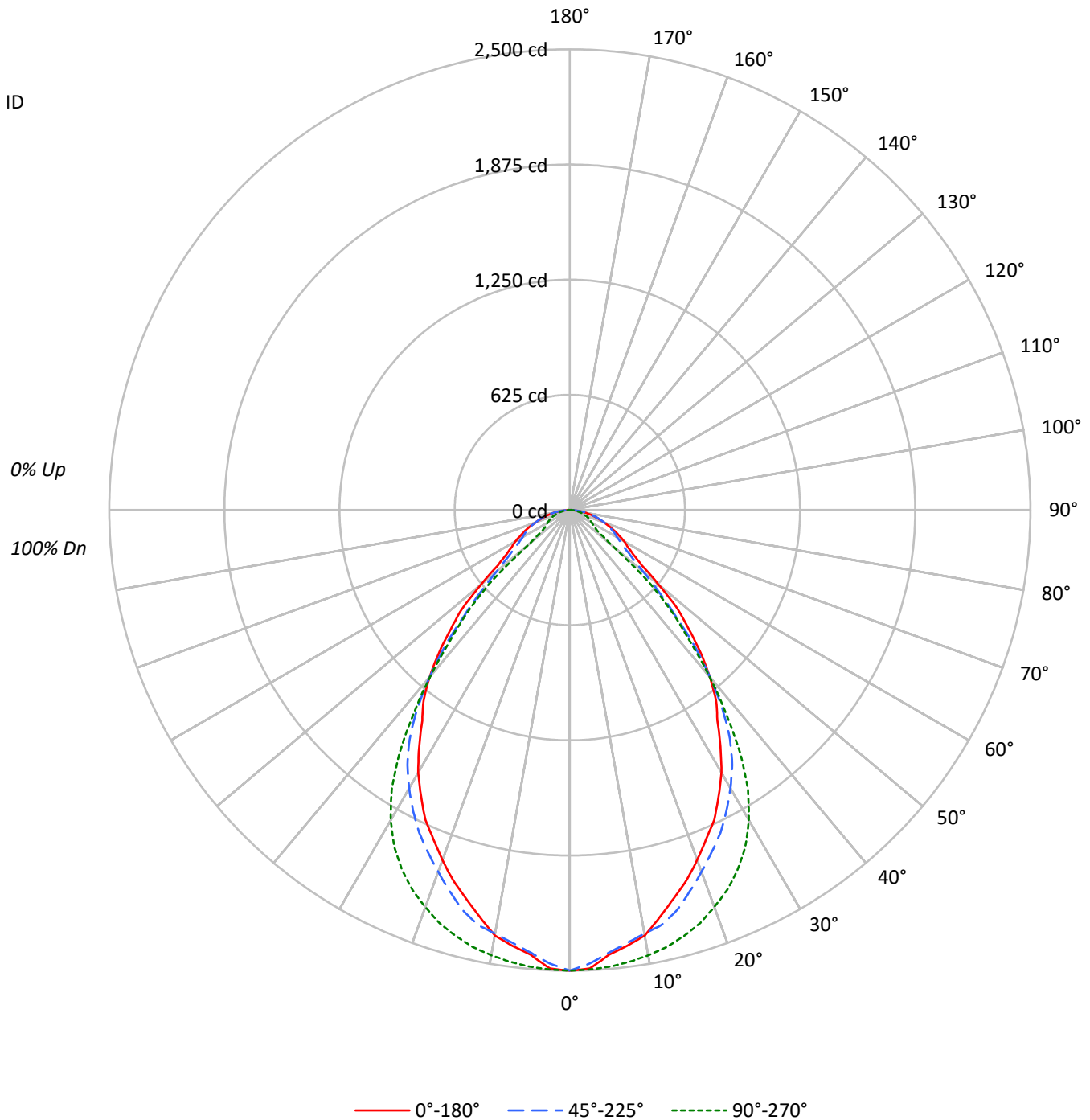
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4057.0 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 5.65231997856897
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	93	92	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	85	82	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	71	67	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	61	56	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	46	40	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17786	17786	17786
5°	17306	17228	17766
10°	16938	16864	17725
15°	16064	16557	17625
20°	15303	15820	17356
25°	14556	15178	16913
30°	13524	14328	15969
35°	12126	13168	14007
40°	10987	11010	10951
45°	9186	8136	7935
50°	6939	5726	3244
55°	5219	4580	2046
60°	4850	4218	1971
65°	4512	4209	1975
70°	4127	4127	1943
75°	3915	4019	1878
80°	3618	3802	1926
85°	3159	3314	2106

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9400 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.9	5.7
10°-20°	636.2	15.7
20°-30°	902.2	22.2
30°-40°	929.5	22.9
40°-50°	649.2	16.0
50°-60°	311.5	7.7
60°-70°	218.6	5.4
70°-80°	136.6	3.4
80°-90°	42.3	1.0
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°	1769.4	43.6
0°-40°	2698.8	66.5
0°-60°	3659.5	90.2
0°-90°	4057.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4057.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2500	2500	2500	2500	2500	
5°	2423	2420	2412	2475	2488	229
15°	2181	2197	2248	2312	2393	614
25°	1854	1873	1933	2064	2154	848
35°	1396	1434	1516	1548	1613	880
45°	913	934	809	767	789	703
55°	421	400	369	236	165	394
65°	268	251	250	190	117	266
75°	142	140	146	126	68	150
85°	39	39	41	40	26	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2499.8	2499.8	2499.8	2499.8	2499.8
2.5°	2490.1	2482.4	2463.7	2497.8	2495.2
5°	2423.1	2419.9	2412.1	2475.3	2487.5
7.5°	2385.1	2378.6	2369.6	2439.2	2473.3
10°	2344.5	2352.2	2334.2	2398.0	2453.4
12.5°	2260.7	2281.3	2305.8	2355.4	2428.9
15°	2180.8	2196.9	2247.8	2312.3	2392.8
17.5°	2106.1	2124.8	2168.6	2265.2	2350.9
20°	2021.1	2046.8	2089.4	2213.1	2292.3
22.5°	1933.4	1957.3	2010.8	2143.5	2231.7
25°	1854.2	1872.9	1933.4	2064.2	2154.4
27.5°	1749.2	1784.0	1841.3	1967.6	2062.3
30°	1646.1	1675.7	1744.0	1850.3	1943.7
32.5°	1521.8	1564.9	1640.3	1721.5	1799.4
35°	1396.1	1434.1	1516.0	1547.5	1612.6
37.5°	1304.6	1314.9	1361.3	1357.5	1394.2
40°	1182.9	1203.5	1185.4	1137.1	1179.0
42.5°	1051.4	1075.9	1003.1	947.1	961.9
45°	912.9	934.2	808.6	767.3	788.6
47.5°	793.1	791.2	652.0	624.3	594.7
50°	626.9	647.5	517.3	465.8	293.1
52.5°	489.6	497.4	426.5	297.7	192.6
55°	420.7	400.1	369.2	236.4	164.9
57.5°	373.7	347.9	327.3	219.7	150.8
60°	340.8	311.8	296.4	208.7	138.5
62.5°	303.4	280.9	275.1	199.1	127.6
65°	268.0	250.6	250.0	190.1	117.3
67.5°	232.6	222.9	225.5	179.1	105.7
70°	198.4	196.5	198.4	164.9	93.4
72.5°	169.4	167.5	172.7	146.9	79.9
75°	142.4	140.4	146.2	126.3	68.3
77.5°	113.4	114.7	118.5	105.0	57.3
80°	88.3	88.3	92.8	82.5	47.0
82.5°	63.1	63.8	66.4	60.6	36.7
85°	38.7	38.7	40.6	39.9	25.8
87.5°	12.9	14.8	17.4	18.7	12.9
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	15.65	17.00	16.01	17.31	17.63	11.98	13.33	12.34	13.65	13.96
	3H	17.39	18.59	17.77	18.92	19.29	13.96	15.16	14.34	15.49	15.86
	4H	18.06	19.18	18.46	19.53	19.92	14.66	15.79	15.06	16.14	16.52
	6H	18.56	19.60	18.98	19.97	20.37	15.18	16.22	15.60	16.59	16.98
	8H	18.74	19.72	19.16	20.11	20.52	15.37	16.35	15.80	16.74	17.15
	12H	18.85	19.79	19.28	20.17	20.60	15.51	16.45	15.94	16.83	17.26
4H	2H	16.18	17.31	16.58	17.66	18.04	13.60	14.73	14.00	15.08	15.46
	3H	18.15	19.09	18.57	19.49	19.89	15.78	16.71	16.19	17.11	17.52
	4H	18.96	19.79	19.39	20.21	20.65	16.66	17.50	17.09	17.91	18.36
	6H	19.60	20.32	20.06	20.77	21.23	17.30	18.03	17.76	18.47	18.94
	8H	19.82	20.50	20.29	20.94	21.41	17.51	18.19	17.98	18.63	19.10
	12H	19.97	20.57	20.46	21.06	21.53	17.67	18.27	18.15	18.75	19.22
8H	4H	19.24	19.92	19.71	20.36	20.83	17.31	17.99	17.78	18.43	18.90
	6H	20.02	20.58	20.53	21.08	21.56	18.17	18.73	18.67	19.22	19.70
	8H	20.33	20.83	20.85	21.34	21.83	18.50	19.00	19.02	19.51	20.00
	12H	20.56	21.00	21.08	21.50	22.07	18.76	19.20	19.27	19.70	20.27
12H	4H	19.26	19.86	19.74	20.34	20.81	17.38	17.98	17.87	18.46	18.94
	6H	20.08	20.58	20.60	21.09	21.58	18.31	18.81	18.83	19.32	19.81
	8H	20.44	20.88	20.95	21.38	21.95	18.72	19.16	19.23	19.66	20.23