

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: P893048

Luminaire Tested: 2MB-SC3-LVRA-UNV-CC83-HI-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893048
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: 2MB-SC3-LVRA-UNV-CC83-HI-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 4000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

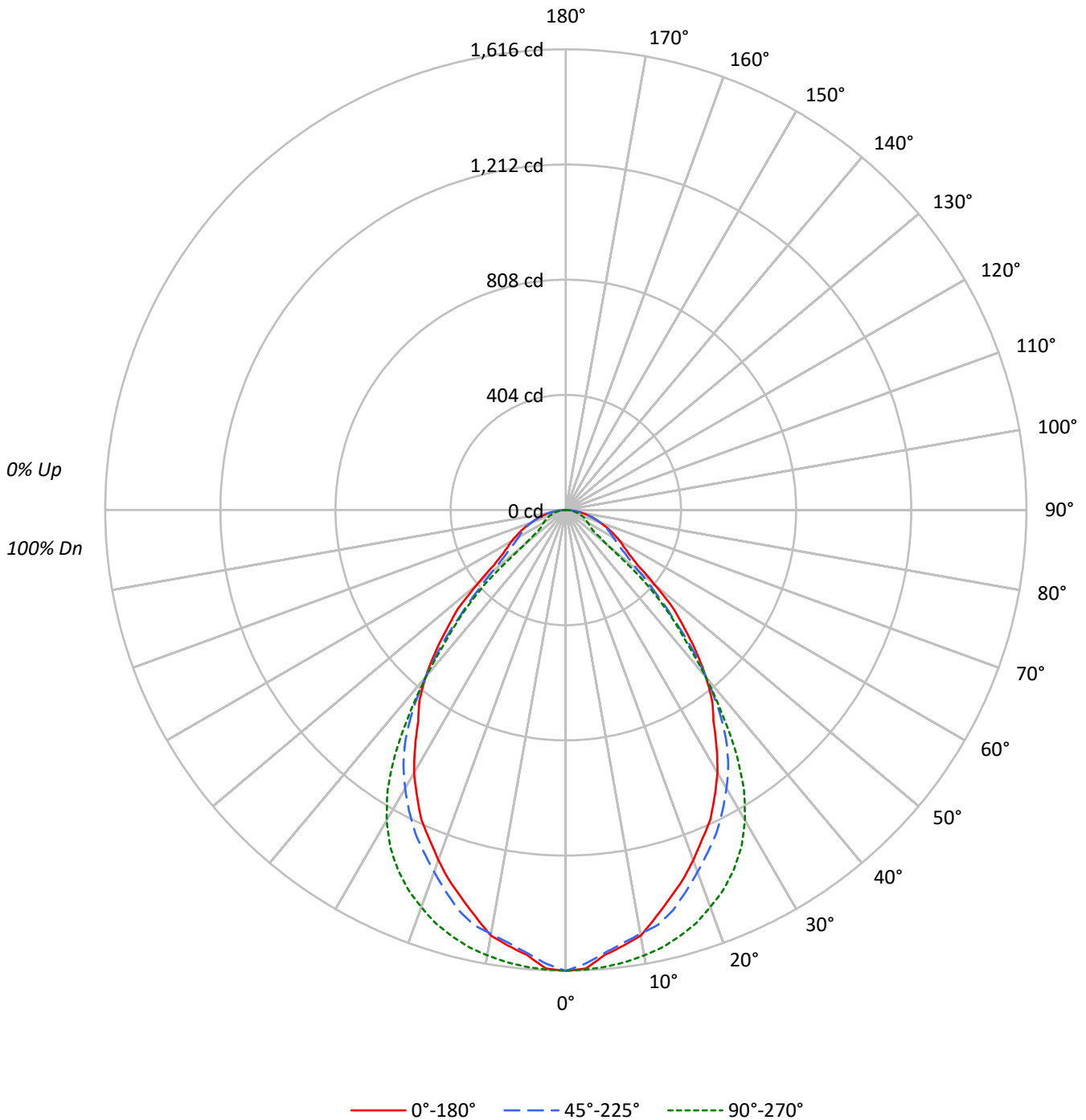
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2623.0 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 21
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	80	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	71	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	63	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	52	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	47	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	37	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23121	23121	23121
5°	22497	22395	23095
10°	22019	21921	23041
15°	20882	21524	22911
20°	19893	20564	22563
25°	18922	19730	21986
30°	17581	18626	20759
35°	15763	17116	18208
40°	14282	14312	14236
45°	11940	10577	10314
50°	9020	7444	4217
55°	6784	5953	2659
60°	6306	5482	2564
65°	5866	5470	2566
70°	5366	5366	2526
75°	5091	5229	2443
80°	4704	4943	2504
85°	4103	4300	2741

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12220 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.3	5.7
10°-20°	411.4	15.7
20°-30°	583.3	22.2
30°-40°	600.9	22.9
40°-50°	419.7	16.0
50°-60°	201.4	7.7
60°-70°	141.3	5.4
70°-80°	88.3	3.4
80°-90°	27.3	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°	1144.0	43.6
0°-40°	1744.9	66.5
0°-60°	2366.0	90.2
0°-90°	2623.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2623.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1616	1616	1616	1616	1616	
5°	1567	1564	1560	1600	1608	148
15°	1410	1420	1453	1495	1547	397
25°	1199	1211	1250	1335	1393	548
35°	903	927	980	1000	1043	569
45°	590	604	523	496	510	455
55°	272	259	239	153	107	255
65°	173	162	162	123	76	172
75°	92	91	95	82	44	97
85°	25	25	26	26	17	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1616.2	1616.2	1616.2	1616.2	1616.2
2.5°	1609.9	1604.9	1592.9	1614.9	1613.3
5°	1566.6	1564.5	1559.5	1600.4	1608.3
7.5°	1542.0	1537.9	1532.0	1577.0	1599.1
10°	1515.8	1520.8	1509.1	1550.4	1586.2
12.5°	1461.6	1475.0	1490.8	1522.9	1570.4
15°	1410.0	1420.4	1453.3	1495.0	1547.0
17.5°	1361.7	1373.8	1402.1	1464.6	1520.0
20°	1306.7	1323.4	1350.8	1430.8	1482.1
22.5°	1250.0	1265.5	1300.0	1385.8	1442.9
25°	1198.8	1210.9	1250.0	1334.6	1392.9
27.5°	1130.9	1153.4	1190.5	1272.1	1333.3
30°	1064.3	1083.4	1127.6	1196.3	1256.7
32.5°	983.9	1011.8	1060.5	1113.0	1163.4
35°	902.6	927.2	980.1	1000.5	1042.6
37.5°	843.5	850.2	880.2	877.7	901.4
40°	764.8	778.1	766.4	735.2	762.3
42.5°	679.8	695.6	648.6	612.3	621.9
45°	590.2	604.0	522.8	496.1	509.8
47.5°	512.8	511.5	421.5	403.6	384.5
50°	405.3	418.6	334.5	301.2	189.5
52.5°	316.6	321.6	275.8	192.4	124.5
55°	272.0	258.7	238.7	152.9	106.6
57.5°	241.6	224.9	211.6	142.0	97.5
60°	220.4	201.6	191.6	135.0	89.6
62.5°	196.2	181.6	177.9	128.7	82.5
65°	173.3	162.0	161.6	122.9	75.8
67.5°	150.4	144.1	145.8	115.8	68.3
70°	128.3	127.0	128.3	106.6	60.4
72.5°	109.6	108.3	111.6	95.0	51.7
75°	92.1	90.8	94.6	81.6	44.2
77.5°	73.3	74.1	76.6	67.9	37.1
80°	57.1	57.1	60.0	53.3	30.4
82.5°	40.8	41.2	42.9	39.2	23.7
85°	25.0	25.0	26.2	25.8	16.7
87.5°	8.3	9.6	11.2	12.1	8.3
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	16.56	17.91	16.92	18.22	18.54	12.89	14.24	13.25	14.56	14.87
	3H	18.30	19.50	18.68	19.83	20.20	14.87	16.07	15.25	16.40	16.77
	4H	18.97	20.10	19.37	20.45	20.83	15.57	16.70	15.97	17.05	17.43
	6H	19.48	20.51	19.89	20.88	21.28	16.09	17.13	16.51	17.50	17.90
	8H	19.65	20.63	20.08	21.02	21.43	16.28	17.26	16.71	17.66	18.06
	12H	19.76	20.70	20.19	21.08	21.51	16.42	17.36	16.85	17.74	18.17
4H	2H	17.09	18.22	17.49	18.57	18.95	14.51	15.64	14.91	15.99	16.37
	3H	19.07	20.00	19.48	20.40	20.80	16.69	17.62	17.10	18.02	18.43
	4H	19.87	20.70	20.30	21.12	21.56	17.57	18.41	18.00	18.82	19.27
	6H	20.51	21.24	20.97	21.68	22.15	18.21	18.94	18.67	19.38	19.85
	8H	20.73	21.41	21.20	21.85	22.32	18.42	19.10	18.89	19.54	20.01
	12H	20.89	21.49	21.37	21.97	22.44	18.58	19.18	19.07	19.66	20.14
8H	4H	20.15	20.83	20.62	21.28	21.75	18.22	18.90	18.69	19.34	19.81
	6H	20.94	21.49	21.44	21.99	22.47	19.08	19.64	19.58	20.13	20.61
	8H	21.24	21.74	21.76	22.25	22.74	19.41	19.91	19.93	20.42	20.91
	12H	21.47	21.91	21.99	22.41	22.98	19.67	20.11	20.19	20.61	21.18
12H	4H	20.17	20.77	20.65	21.25	21.72	18.29	18.89	18.78	19.37	19.85
	6H	20.99	21.49	21.51	22.00	22.49	19.22	19.72	19.74	20.23	20.72
	8H	21.35	21.79	21.87	22.29	22.86	19.63	20.07	20.15	20.57	21.14