

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: P893037

Luminaire Tested: 2MB-SC3-LVR-UNV-CC83-MID-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893037
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-LVR-UNV-CC83-MID-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 5000K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

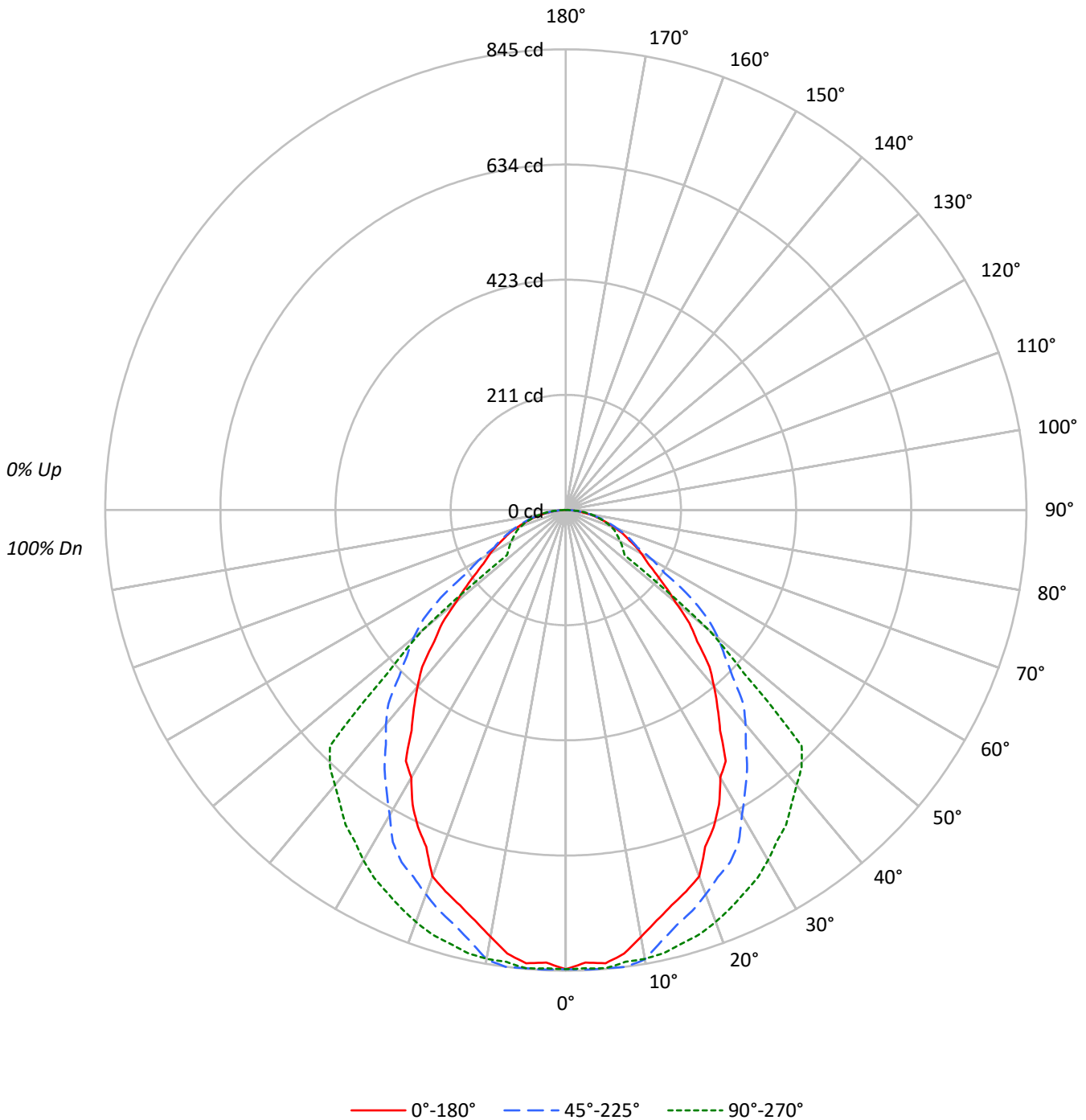
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1757.0 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.3 / 1.26
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 13.9
Input Voltage (V): 120
Input Current (A_{in}): 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	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	89	89	89	87
2	102	94	88	83	99	93	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	75	67	62	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	42	42	42	40
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	38	38	38	37
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°	12048	12048	12048
5°	11984	12116	12116
10°	11544	12156	12144
15°	11114	11667	12189
20°	10888	11424	12238
25°	10129	11253	12230
30°	9363	10676	12255
35°	8617	10126	12303
40°	7899	9584	12299
45°	6901	8758	12379
50°	5840	8121	7660
55°	4961	6983	3205
60°	4595	5296	3305
65°	4272	4505	3470
70°	4032	4254	3647
75°	3720	4018	3764
80°	3402	3715	3971
85°	3020	3398	4268

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12379 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	4.5
10°-20°	223.6	12.7
20°-30°	325.0	18.5
30°-40°	367.9	20.9
40°-50°	343.7	19.6
50°-60°	195.3	11.1
60°-70°	122.7	7.0
70°-80°	75.3	4.3
80°-90°	23.6	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°	628.4	35.8
0°-40°	996.3	56.7
0°-60°	1535.4	87.4
0°-90°	1757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1757.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	834	843	844	841	844	78
15°	750	763	788	831	823	212
25°	642	654	713	745	775	294
35°	493	526	580	656	704	311
45°	341	376	433	550	612	266
55°	199	217	280	147	128	182
65°	126	131	133	116	102	127
75°	67	70	73	74	68	72
85°	18	19	21	23	26	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	842.2	842.2	842.2	842.2	842.2
2.5°	830.7	839.9	843.7	842.9	841.4
5°	834.5	842.9	843.7	840.6	843.7
7.5°	820.7	840.6	845.2	837.6	836.0
10°	794.7	806.2	836.8	839.9	836.0
12.5°	771.0	784.8	810.0	839.9	832.2
15°	750.4	763.4	787.8	830.7	823.0
17.5°	733.5	738.1	771.0	820.7	816.1
20°	715.2	724.4	750.4	796.3	803.9
22.5°	668.5	693.8	728.9	774.8	790.1
25°	641.7	654.0	712.9	745.0	774.8
27.5°	608.9	631.0	686.9	722.1	761.1
30°	566.8	592.0	646.3	698.4	741.9
32.5°	546.1	555.3	611.9	679.2	720.5
35°	493.4	526.2	579.8	655.5	704.5
37.5°	457.4	477.3	542.3	632.6	680.0
40°	423.0	445.9	513.2	607.3	658.6
42.5°	390.1	410.7	481.9	582.1	640.2
45°	341.1	376.3	432.9	550.0	611.9
47.5°	307.5	329.7	394.7	511.0	443.6
50°	262.4	289.1	364.9	350.3	344.2
52.5°	229.5	244.0	328.9	296.0	136.2
55°	198.9	217.2	280.0	146.9	128.5
57.5°	175.9	188.2	214.9	136.2	122.4
60°	160.6	163.7	185.1	130.0	115.5
62.5°	143.8	146.9	147.6	123.1	108.6
65°	126.2	130.8	133.1	115.5	102.5
67.5°	113.2	114.0	117.0	107.1	96.4
70°	96.4	97.9	101.7	97.9	87.2
72.5°	81.8	84.1	86.4	87.2	78.0
75°	67.3	69.6	72.7	74.2	68.1
77.5°	55.1	55.8	58.9	62.7	58.1
80°	41.3	43.6	45.1	49.0	48.2
82.5°	29.8	30.6	32.9	36.0	37.5
85°	18.4	19.1	20.7	22.9	26.0
87.5°	7.6	8.4	9.2	10.7	12.2
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	16.37	17.84	16.73	18.16	18.47	14.11	15.59	14.48	15.90	16.22
	3H	17.95	19.28	18.33	19.60	19.97	16.45	17.77	16.83	18.10	18.46
	4H	18.55	19.79	18.96	20.14	20.52	17.39	18.63	17.79	18.98	19.36
	6H	19.02	20.16	19.43	20.53	20.92	18.18	19.33	18.59	19.69	20.09
	8H	19.17	20.26	19.59	20.65	21.05	18.49	19.58	18.92	19.97	20.37
	12H	19.27	20.31	19.70	20.69	21.12	18.74	19.78	19.17	20.16	20.59
4H	2H	16.94	18.18	17.34	18.53	18.90	15.27	16.51	15.67	16.86	17.24
	3H	18.76	19.78	19.17	20.18	20.58	17.71	18.73	18.12	19.13	19.53
	4H	19.49	20.41	19.92	20.83	21.27	18.76	19.68	19.19	20.09	20.53
	6H	20.08	20.88	20.54	21.33	21.79	19.65	20.45	20.11	20.90	21.36
	8H	20.28	21.03	20.74	21.47	21.94	20.00	20.75	20.46	21.19	21.66
	12H	20.42	21.09	20.90	21.57	22.04	20.28	20.95	20.76	21.43	21.90
8H	4H	19.80	20.55	20.26	20.99	21.46	19.16	19.91	19.62	20.35	20.82
	6H	20.52	21.14	21.01	21.63	22.11	20.20	20.82	20.70	21.31	21.79
	8H	20.79	21.35	21.30	21.86	22.35	20.64	21.20	21.15	21.71	22.20
	12H	21.01	21.51	21.52	22.00	22.56	21.02	21.52	21.53	22.01	22.58
12H	4H	19.83	20.50	20.31	20.98	21.45	19.19	19.87	19.68	20.34	20.82
	6H	20.58	21.14	21.10	21.65	22.14	20.27	20.83	20.78	21.34	21.83
	8H	20.92	21.41	21.43	21.91	22.47	20.77	21.27	21.28	21.76	22.33