

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: P892558

Luminaire Tested: 2MB-2SL-RFLW-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-2SL-RFLW-UNV-L835
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 3500K
Light Source: -
Ballast/Driver: -

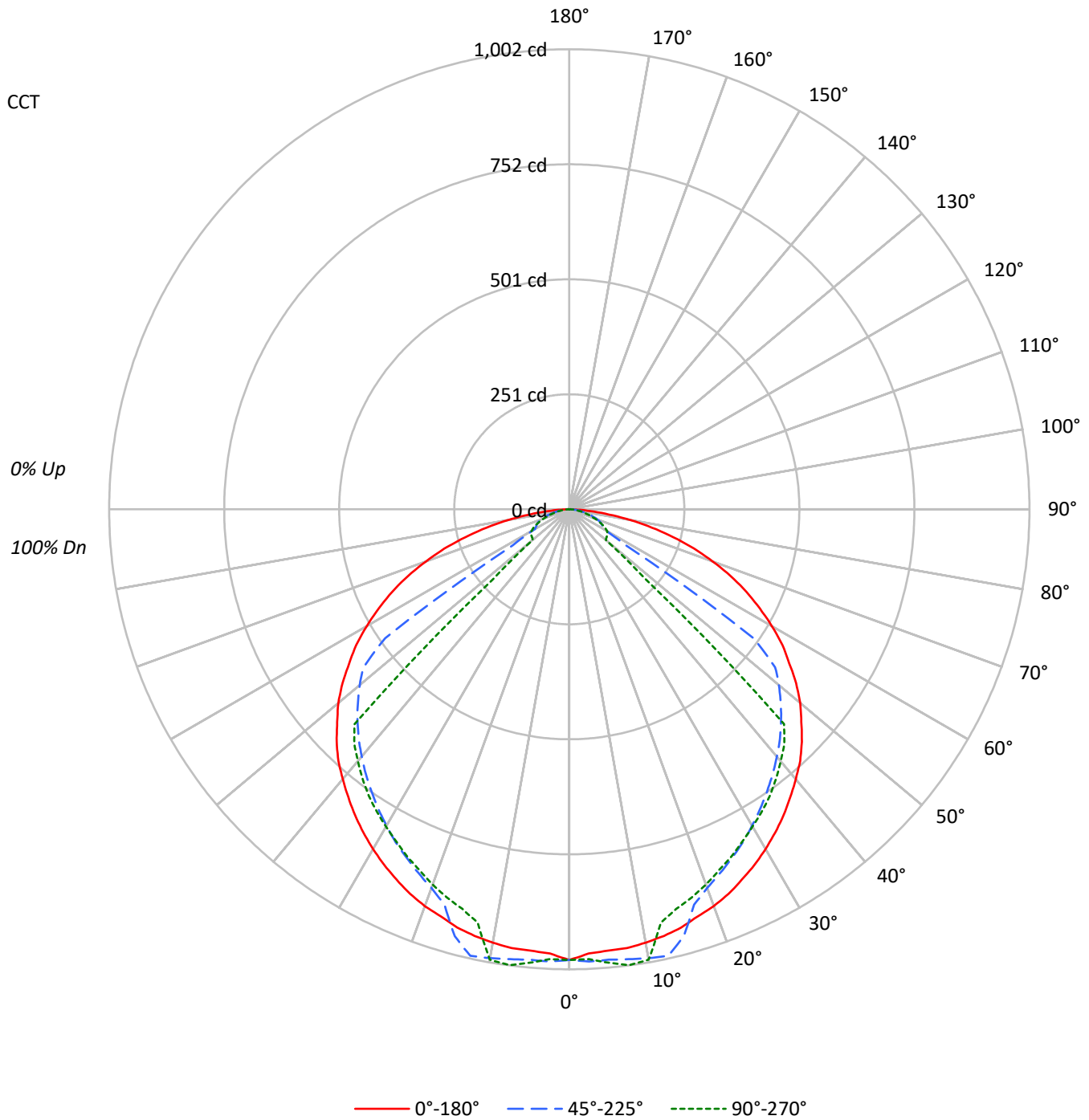
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2305.0 lumens
Efficiency: N/A
Efficacy: 154.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.22 / 1.37
Luminous Opening: Rectangular (W 0.21' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 14.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.92
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	101	98	100	97	94	96	94	92	92	91	89	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	77	77	77	75
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	67	67	67	67	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	58	58	58	56
5	80	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	51	51	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	46	46	46	44
7	69	56	48	42	67	55	47	42	53	46	41	52	46	41	51	45	41	41	41	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	37	37	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	33	33	33	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	30	30	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25628	25628	25628
5°	25290	25812	25988
10°	25408	26317	26405
15°	25486	26023	24350
20°	25552	24386	24172
25°	25635	24137	24042
30°	25760	23994	24060
35°	25931	23923	24274
40°	26147	23963	24413
45°	26447	24081	24409
50°	26669	24199	4220
55°	26619	22290	4579
60°	26609	4501	4966
65°	26292	4782	4917
70°	25396	4977	4557
75°	23645	4681	4015
80°	20282	4150	3488
85°	13570	3984	2966

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 26749 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	4.1
10°-20°	265.2	11.5
20°-30°	396.9	17.2
30°-40°	478.5	20.8
40°-50°	481.9	20.9
50°-60°	300.6	13.0
60°-70°	189.0	8.2
70°-80°	78.6	3.4
80°-90°	20.2	0.9
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°	756.2	32.8
0°-40°	1234.7	53.6
0°-60°	2017.2	87.5
0°-90°	2305.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2305.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	982	982	982	982	982	
5°	965	985	985	986	992	92
15°	943	972	963	901	901	266
25°	890	924	838	831	835	411
35°	814	762	751	755	762	509
45°	716	648	652	661	661	552
55°	585	515	490	96	101	524
65°	426	368	77	81	80	419
75°	234	56	46	41	40	247
85°	45	17	13	10	10	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	981.6	981.6	981.6	981.6	981.6
2.5°	968.4	986.0	986.0	981.6	980.5
5°	965.0	984.9	984.9	986.0	991.6
7.5°	963.9	982.7	988.3	994.9	1001.5
10°	958.4	980.5	992.7	1001.5	996.0
12.5°	951.8	976.1	996.0	939.6	921.9
15°	942.9	971.7	962.8	900.9	900.9
17.5°	929.7	965.0	903.1	885.5	886.6
20°	919.7	959.5	877.7	867.8	870.0
22.5°	906.5	948.5	857.8	849.0	851.2
25°	889.9	924.1	837.9	831.3	834.6
27.5°	873.3	874.4	818.0	813.6	815.8
30°	854.5	826.9	795.9	794.8	798.1
32.5°	834.6	791.5	773.8	776.0	780.4
35°	813.6	761.6	750.6	755.0	761.6
37.5°	790.4	734.0	727.4	735.1	739.5
40°	767.2	705.3	703.1	710.8	716.3
42.5°	744.0	677.6	678.7	686.5	693.1
45°	716.3	647.8	652.2	661.1	661.1
47.5°	685.4	615.7	624.6	605.8	224.4
50°	656.6	583.7	595.8	179.1	103.9
52.5°	622.4	549.4	564.9	98.4	101.7
55°	584.8	515.1	489.7	96.2	100.6
57.5°	550.5	479.8	145.9	95.1	98.4
60°	509.6	444.4	86.2	92.9	95.1
62.5°	467.6	406.8	81.8	88.4	88.4
65°	425.6	368.1	77.4	80.7	79.6
67.5°	380.3	328.3	73.0	70.7	69.6
70°	332.7	202.3	65.2	60.8	59.7
72.5°	285.2	69.6	56.4	50.9	49.7
75°	234.4	56.4	46.4	40.9	39.8
77.5°	184.6	46.4	36.5	32.1	31.0
80°	134.9	35.4	27.6	24.3	23.2
82.5°	87.3	25.4	21.0	16.6	15.5
85°	45.3	16.6	13.3	9.9	9.9
87.5°	17.7	9.9	6.6	4.4	3.3
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	24.26	25.78	24.63	26.09	26.40	12.90	14.42	13.27	14.73	15.04
	3H	26.18	27.53	26.56	27.86	28.22	15.03	16.38	15.41	16.71	17.07
	4H	26.67	27.93	27.07	28.28	28.66	15.72	16.98	16.12	17.33	17.71
	6H	27.10	28.27	27.52	28.64	29.03	16.18	17.35	16.59	17.71	18.11
	8H	27.24	28.35	27.67	28.74	29.14	16.31	17.43	16.74	17.82	18.22
	12H	27.32	28.38	27.75	28.76	29.19	16.40	17.46	16.83	17.85	18.28
4H	2H	24.11	25.37	24.51	25.72	26.10	13.65	14.92	14.05	15.27	15.65
	3H	26.14	27.18	26.55	27.58	27.98	15.99	17.04	16.41	17.44	17.84
	4H	26.62	27.56	27.06	27.98	28.42	16.79	17.72	17.22	18.14	18.58
	6H	27.14	27.95	27.59	28.39	28.85	17.36	18.17	17.82	18.62	19.08
	8H	27.32	28.08	27.79	28.53	28.99	17.53	18.29	18.00	18.74	19.20
	12H	27.45	28.13	27.93	28.60	29.08	17.65	18.33	18.13	18.81	19.28
8H	4H	26.55	27.31	27.01	27.75	28.22	17.38	18.14	17.84	18.58	19.05
	6H	27.06	27.69	27.56	28.18	28.66	18.03	18.66	18.53	19.15	19.63
	8H	27.26	27.82	27.77	28.33	28.82	18.25	18.82	18.77	19.33	19.82
	12H	27.42	27.92	27.93	28.41	28.98	18.43	18.92	18.94	19.42	19.98
12H	4H	26.52	27.20	27.00	27.67	28.15	17.46	18.13	17.94	18.61	19.09
	6H	27.02	27.58	27.53	28.09	28.58	18.14	18.70	18.65	19.21	19.70
	8H	27.24	27.74	27.75	28.23	28.80	18.42	18.92	18.93	19.41	19.98