

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: P892983

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2410-248-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-ASYMR-UNV-CC83-MID-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 80CRI, 5000K CCT, MID setting
Light Source: -
Ballast/Driver: -

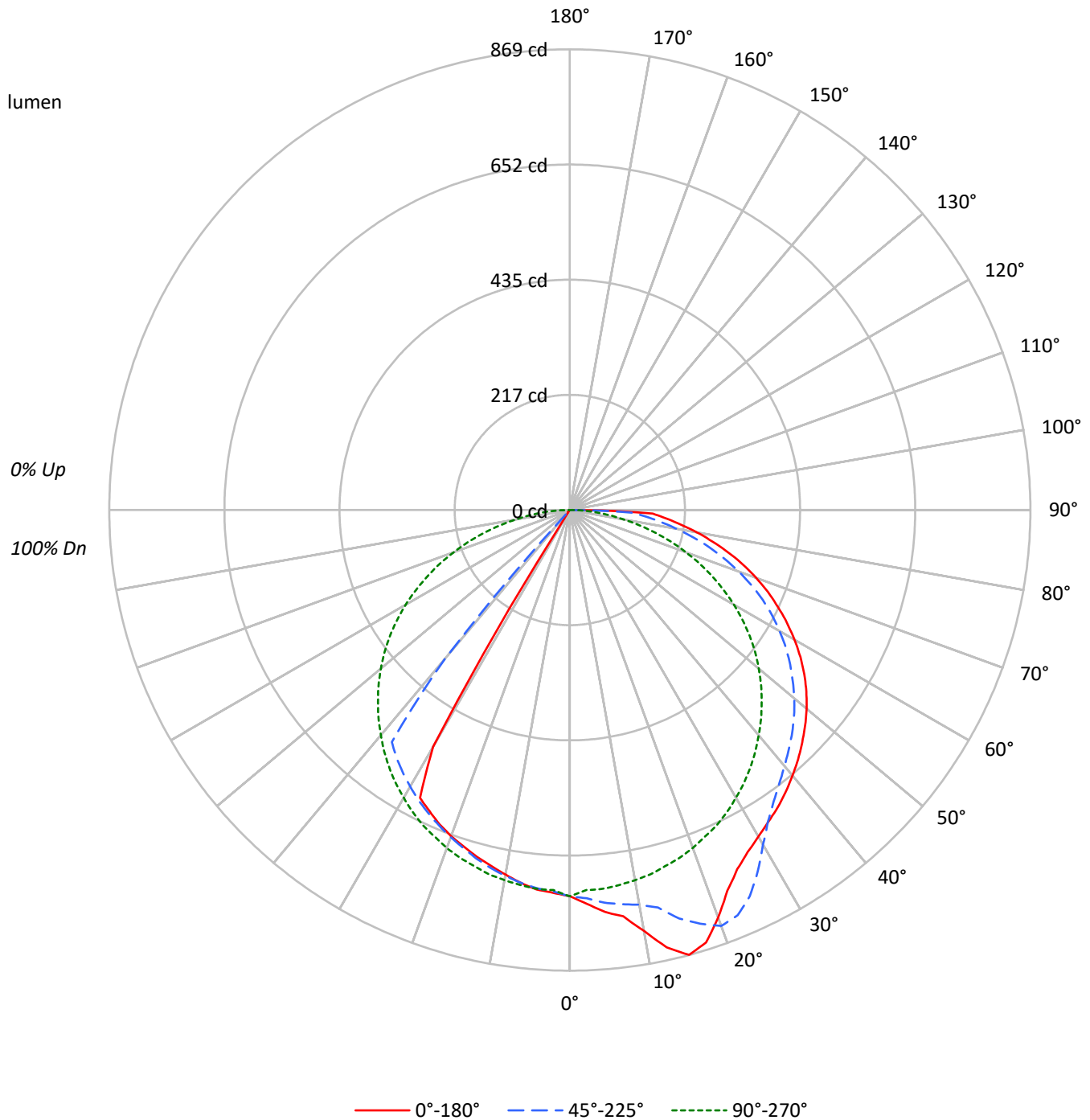
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1971.0 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.25
Luminous Opening: Rectangular (W 0.21' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 13.9
Input Voltage (V):
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

TEST NUMBER: P892983
CATALOG NUMBER: 2MB-SC3-ASYMR-UNV-CC83-MID-5000K

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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	85	83	
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	71	71	71	69	
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	61	61	61	59	
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	53	50	
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	46	46	46	44	
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	41	41	41	39	
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	36	36	36	35	
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	33	33	33	31	
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	30	30	30	28	
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	27	27	27	26	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	19020	19020	19020	19020	19020
5°	19944	19485	18796	18765	18830
10°	21370	20042	18793	18571	18515
15°	23480	21561	18799	18393	18304
20°	22732	23196	18848	18245	18187
25°	21539	23149	18894	18186	18053
30°	21446	21974	18893	18163	15547
35°	21810	21370	18922	18164	214
40°	22282	21471	18898	12528	143
45°	22892	21906	18900	233	92
50°	23692	22453	18911	171	32
55°	24593	23096	18858	114	18
60°	25575	23878	18693	42	21
65°	26780	24822	18354	49	49
70°	28572	25862	17771	61	61
75°	31271	27528	17007	171	81
80°	36700	30807	15742	256	120
85°	54609	43256	14738	389	240

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 93671 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	3.5
10°-20°	208.4	10.6
20°-30°	320.4	16.3
30°-40°	343.4	17.4
40°-50°	311.8	15.8
50°-60°	284.4	14.4
60°-70°	211.6	10.7
70°-80°	148.9	7.6
80°-90°	72.2	3.7
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°	598.6	30.4
0°-40°	942.0	47.8
0°-60°	1538.3	78.0
0°-90°	1971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1971.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	728	728	728	728	728	
5°	761	744	717	716	718	74
15°	869	798	696	680	677	240
25°	748	804	656	631	627	348
35°	684	670	594	570	7	429
45°	620	593	512	6	2	479
55°	540	507	414	2	0	483
65°	434	402	297	1	1	429
75°	310	273	169	2	1	327
85°	182	144	49	1	1	183
90°	0	0	0	0	0	



TEST NUMBER: P892983

CATALOG NUMBER: 2MB-SC3-ASYMR-UNV-CC83-MID-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	728.5	728.5	728.5	728.5	728.5	728.5	728.5	728.5	728.5
2.5°	743.5	735.2	733.1	738.9	717.6	731.8	720.1	722.6	722.6
5°	761.0	749.3	743.5	741.8	717.2	726.8	716.0	716.0	718.5
7.5°	773.1	760.2	749.8	745.6	713.5	721.8	709.3	709.3	709.3
10°	806.1	781.9	756.0	748.5	708.9	715.1	700.5	701.4	698.4
12.5°	844.9	823.2	768.1	747.3	703.9	706.8	691.4	690.9	687.6
15°	868.7	852.4	797.7	745.6	695.5	698.0	680.5	679.3	677.2
17.5°	855.3	852.8	818.2	744.3	688.0	685.9	668.4	667.2	665.5
20°	818.2	824.4	834.9	741.8	678.4	674.2	656.7	655.9	654.6
22.5°	776.9	783.1	827.4	746.0	666.7	661.7	644.2	643.4	641.7
25°	747.7	747.7	803.6	756.0	655.9	646.7	631.3	630.0	626.7
27.5°	727.2	723.5	768.1	767.3	642.1	631.7	617.5	616.3	612.1
30°	711.4	705.1	728.9	772.7	626.7	615.4	602.5	601.2	515.7
32.5°	697.2	690.5	695.9	777.3	611.2	597.9	586.6	418.5	18.4
35°	684.3	676.7	670.5	774.0	593.7	580.4	569.9	12.1	6.7
37.5°	669.7	663.8	649.6	756.4	574.9	561.6	551.6	6.7	5.8
40°	653.8	648.4	630.0	730.6	554.5	543.2	367.6	5.8	4.2
42.5°	637.5	633.4	611.7	693.0	534.1	522.8	11.7	4.6	3.3
45°	620.0	616.3	593.3	647.5	511.9	501.5	6.3	3.3	2.5
47.5°	602.1	596.6	574.1	598.7	489.4	479.0	5.4	2.5	1.7
50°	583.3	577.4	552.8	555.8	465.6	455.2	4.2	1.7	0.8
52.5°	562.4	555.3	530.3	516.9	440.6	431.0	3.3	0.8	0.4
55°	540.3	532.4	507.4	483.2	414.3	403.5	2.5	0.8	0.4
57.5°	515.7	506.9	483.2	451.0	386.4	272.9	1.7	0.8	0.4
60°	489.8	481.1	457.3	421.0	358.0	18.8	0.8	0.8	0.4
62.5°	462.3	453.1	430.2	390.5	327.5	15.4	0.8	0.8	0.8
65°	433.5	422.7	401.8	359.2	297.1	12.9	0.8	0.8	0.8
67.5°	404.7	390.9	371.3	327.1	265.8	10.8	0.8	0.8	0.8
70°	374.3	359.2	338.8	294.6	232.8	8.8	0.8	0.8	0.8
72.5°	343.0	328.4	306.2	261.6	201.9	6.7	0.8	0.8	0.8
75°	310.0	296.7	272.9	228.6	168.6	5.0	1.7	0.8	0.8
77.5°	275.8	265.4	238.7	194.8	136.0	3.3	1.7	0.8	0.8
80°	244.1	232.4	204.9	160.6	104.7	2.5	1.7	1.3	0.8
82.5°	211.5	201.1	173.6	129.3	75.1	2.1	1.7	1.3	0.8
85°	182.3	172.3	144.4	101.0	49.2	1.7	1.3	1.3	0.8
87.5°	156.5	147.3	119.7	73.8	28.0	1.3	1.3	1.3	0.8
90°	0.0	0.0	0.0	0.0	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	24.77	26.38	25.13	26.69	27.01	20.20	21.81	20.56	22.13	22.44
	3H	27.21	28.68	27.59	29.00	29.36	20.84	22.31	21.22	22.63	22.99
	4H	28.34	29.72	28.73	30.07	30.44	20.99	22.37	21.38	22.72	23.09
	6H	29.43	30.71	29.84	31.08	31.47	21.03	22.31	21.44	22.67	23.07
	8H	29.96	31.19	30.38	31.58	31.97	21.01	22.24	21.44	22.63	23.03
	12H	30.53	31.71	30.96	32.09	32.52	21.00	22.17	21.43	22.56	22.98
4H	2H	25.42	26.80	25.82	27.15	27.53	21.33	22.71	21.72	23.06	23.43
	3H	28.11	29.28	28.52	29.68	30.08	22.67	23.84	23.08	24.23	24.63
	4H	29.41	30.47	29.84	30.88	31.32	23.20	24.27	23.63	24.68	25.11
	6H	30.69	31.62	31.14	32.06	32.52	23.48	24.41	23.93	24.85	25.31
	8H	31.32	32.19	31.77	32.63	33.10	23.52	24.39	23.97	24.83	25.30
	12H	32.00	32.79	32.48	33.27	33.74	23.53	24.32	24.01	24.79	25.26
8H	4H	29.77	30.65	30.23	31.09	31.55	24.15	25.03	24.61	25.47	25.93
	6H	31.25	31.99	31.75	32.48	32.95	24.74	25.48	25.23	25.96	26.44
	8H	32.04	32.70	32.54	33.21	33.69	24.92	25.58	25.42	26.09	26.57
	12H	32.93	33.52	33.43	34.01	34.57	25.02	25.61	25.52	26.10	26.66
12H	4H	29.81	30.60	30.29	31.08	31.55	24.37	25.16	24.85	25.63	26.10
	6H	31.34	32.01	31.85	32.51	33.00	25.09	25.76	25.60	26.26	26.75
	8H	32.22	32.81	32.73	33.30	33.86	25.40	25.99	25.91	26.48	27.04