

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: P892510

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892510
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-2SL-ASYMR-UNV-L835
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

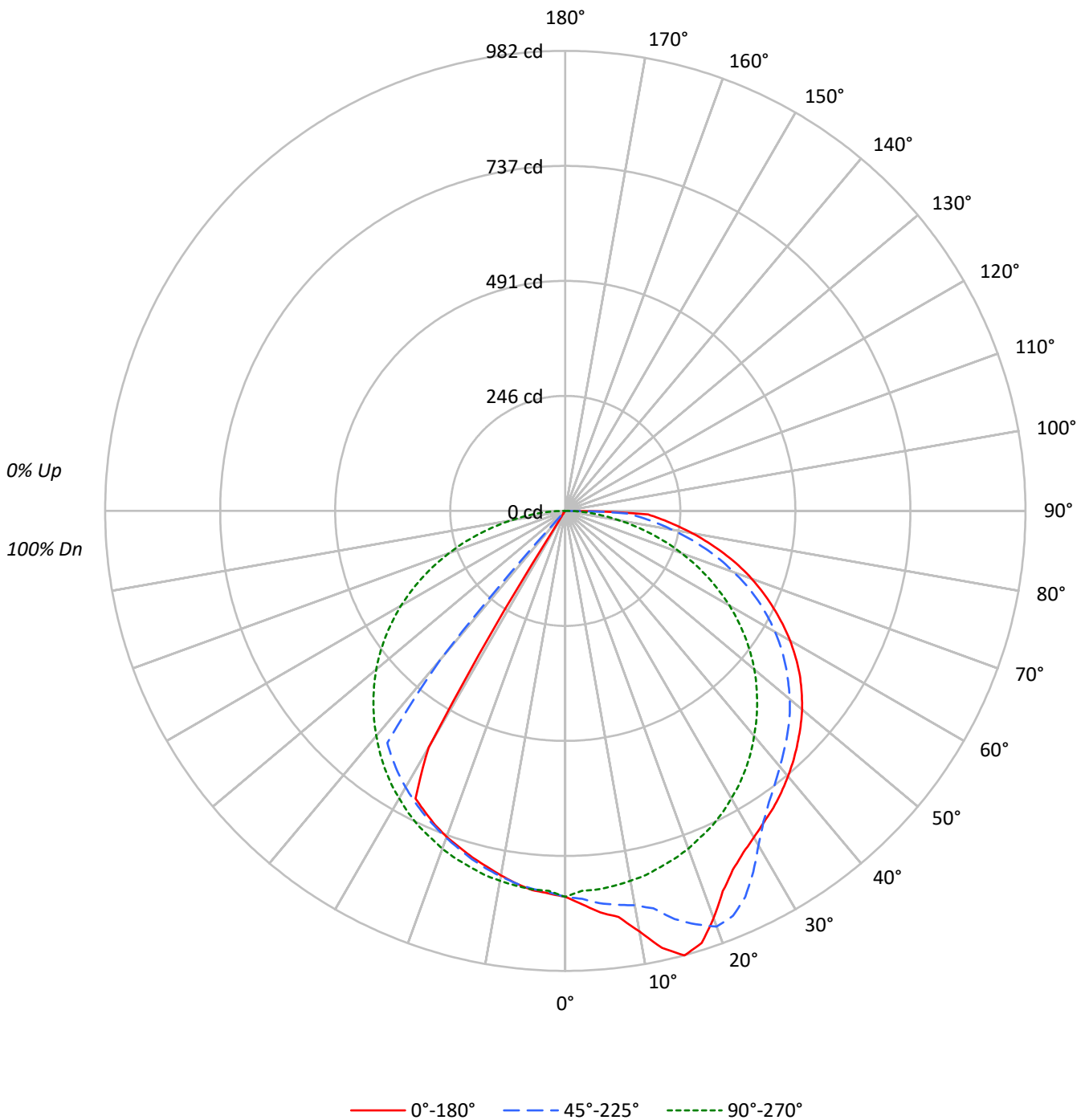
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2229.0 lumens
Efficiency: N/A
Efficacy: 149.6 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): 14.9
Input Voltage (V):
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	21508	21508	21508	21508	21508
5°	22554	22035	21257	21220	21294
10°	24167	22667	21254	21002	20941
15°	26553	24386	21261	20801	20699
20°	25708	26233	21315	20635	20568
25°	24356	26180	21366	20565	20415
30°	24253	24850	21365	20539	17582
35°	24662	24168	21399	20541	239
40°	25200	24283	21373	14168	160
45°	25890	24775	21378	262	103
50°	26791	25394	21389	191	37
55°	27811	26118	21325	127	23
60°	28922	27001	21137	47	26
65°	30283	28071	20757	56	56
70°	32305	29244	20099	69	69
75°	35366	31130	19226	192	91
80°	41497	34836	17801	286	135
85°	61768	48917	16685	419	270

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 105882 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.9	3.5
10°-20°	235.7	10.6
20°-30°	362.3	16.3
30°-40°	388.3	17.4
40°-50°	352.7	15.8
50°-60°	321.7	14.4
60°-70°	239.3	10.7
70°-80°	168.4	7.6
80°-90°	81.6	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°	677.0	30.4
0°-40°	1065.3	47.8
0°-60°	1739.6	78.0
0°-90°	2229.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2229.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	824	824	824	824	824	
5°	861	841	811	810	812	83
15°	982	902	787	770	766	271
25°	846	909	742	714	709	393
35°	774	758	671	644	8	485
45°	701	671	579	7	3	542
55°	611	574	468	3	0	546
65°	490	454	336	1	1	485
75°	351	309	191	2	1	370
85°	206	163	56	1	1	207
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	823.8	823.8	823.8	823.8	823.8	823.8	823.8	823.8	823.8
2.5°	840.8	831.4	829.0	835.6	811.6	827.6	814.4	817.2	817.2
5°	860.6	847.4	840.8	838.9	811.1	822.0	809.7	809.7	812.5
7.5°	874.3	859.7	847.9	843.2	806.9	816.3	802.1	802.1	802.1
10°	911.6	884.2	855.0	846.5	801.7	808.7	792.2	793.2	789.9
12.5°	955.5	931.0	868.7	845.1	796.0	799.3	781.8	781.4	777.6
15°	982.4	964.0	902.2	843.2	786.6	789.4	769.6	768.2	765.8
17.5°	967.3	964.5	925.3	841.8	778.1	775.7	755.9	754.5	752.6
20°	925.3	932.4	944.2	838.9	767.2	762.5	742.7	741.7	740.3
22.5°	878.6	885.7	935.7	843.7	754.0	748.3	728.5	727.6	725.7
25°	845.5	845.5	908.8	855.0	741.7	731.4	713.9	712.5	708.7
27.5°	822.4	818.2	868.7	867.7	726.2	714.4	698.3	696.9	692.2
30°	804.5	797.4	824.3	873.9	708.7	696.0	681.3	679.9	583.2
32.5°	788.5	780.9	787.0	879.0	691.3	676.2	663.4	473.3	20.8
35°	773.8	765.3	758.3	875.3	671.4	656.3	644.5	13.7	7.5
37.5°	757.3	750.7	734.7	855.5	650.2	635.1	623.8	7.5	6.6
40°	739.4	733.2	712.5	826.2	627.1	614.3	415.7	6.6	4.7
42.5°	721.0	716.3	691.7	783.7	604.0	591.2	13.2	5.2	3.8
45°	701.2	696.9	671.0	732.3	579.0	567.2	7.1	3.8	2.8
47.5°	680.9	674.7	649.3	677.1	553.5	541.7	6.1	2.8	1.9
50°	659.6	653.0	625.2	628.5	526.6	514.8	4.7	1.9	0.9
52.5°	636.0	628.0	599.7	584.6	498.3	487.4	3.8	0.9	0.5
55°	611.0	602.1	573.8	546.4	468.5	456.3	2.8	0.9	0.5
57.5°	583.2	573.3	546.4	510.1	436.9	308.6	1.9	0.9	0.5
60°	553.9	544.0	517.1	476.1	404.8	21.2	0.9	0.9	0.5
62.5°	522.8	512.4	486.5	441.6	370.4	17.5	0.9	0.9	0.9
65°	490.2	478.0	454.4	406.3	336.0	14.6	0.9	0.9	0.9
67.5°	457.7	442.1	419.9	369.9	300.6	12.3	0.9	0.9	0.9
70°	423.2	406.3	383.1	333.1	263.3	9.9	0.9	0.9	0.9
72.5°	387.9	371.3	346.3	295.8	228.4	7.5	0.9	0.9	0.9
75°	350.6	335.5	308.6	258.6	190.6	5.7	1.9	0.9	0.9
77.5°	311.9	300.1	269.9	220.4	153.8	3.8	1.9	0.9	0.9
80°	276.0	262.8	231.7	181.7	118.4	2.8	1.9	1.4	0.9
82.5°	239.2	227.4	196.3	146.3	84.9	2.4	1.9	1.4	0.9
85°	206.2	194.9	163.3	114.2	55.7	1.9	1.4	1.4	0.9
87.5°	176.9	166.6	135.4	83.5	31.6	1.4	1.4	1.4	0.9
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	25.19	26.81	25.56	27.12	27.44	20.63	22.24	20.99	22.55	22.87
	3H	27.64	29.10	28.02	29.43	29.79	21.27	22.73	21.64	23.06	23.42
	4H	28.76	30.15	29.16	30.49	30.87	21.41	22.79	21.81	23.14	23.52
	6H	29.86	31.14	30.27	31.51	31.90	21.45	22.74	21.86	23.10	23.49
	8H	30.39	31.61	30.81	32.00	32.40	21.44	22.67	21.87	23.06	23.46
	12H	30.95	32.13	31.38	32.51	32.94	21.42	22.60	21.85	22.98	23.41
4H	2H	25.85	27.23	26.25	27.58	27.96	21.75	23.13	22.15	23.48	23.86
	3H	28.54	29.71	28.95	30.10	30.50	23.09	24.26	23.50	24.66	25.06
	4H	29.83	30.90	30.27	31.31	31.75	23.63	24.69	24.06	25.11	25.54
	6H	31.12	32.05	31.57	32.49	32.94	23.91	24.84	24.36	25.28	25.73
	8H	31.74	32.62	32.20	33.06	33.53	23.94	24.82	24.40	25.26	25.73
	12H	32.43	33.22	32.91	33.70	34.16	23.95	24.75	24.43	25.22	25.69
8H	4H	30.20	31.07	30.66	31.52	31.98	24.58	25.45	25.04	25.90	26.36
	6H	31.68	32.42	32.17	32.90	33.38	25.17	25.90	25.66	26.39	26.87
	8H	32.46	33.13	32.97	33.63	34.12	25.34	26.01	25.85	26.51	27.00
	12H	33.35	33.95	33.86	34.44	34.99	25.45	26.04	25.95	26.53	27.09
12H	4H	30.24	31.03	30.72	31.50	31.97	24.79	25.59	25.27	26.06	26.53
	6H	31.77	32.43	32.28	32.94	33.42	25.52	26.18	26.02	26.69	27.17
	8H	32.65	33.24	33.15	33.73	34.29	25.83	26.42	26.33	26.91	27.47