

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: P892991

Luminaire Tested: 2MB-SC3-ASYMR-UNV-CC93-MID-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892991
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-CC93-MID-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 90CRI, 4000K CCT, MID setting
Light Source: -
Ballast/Driver: -

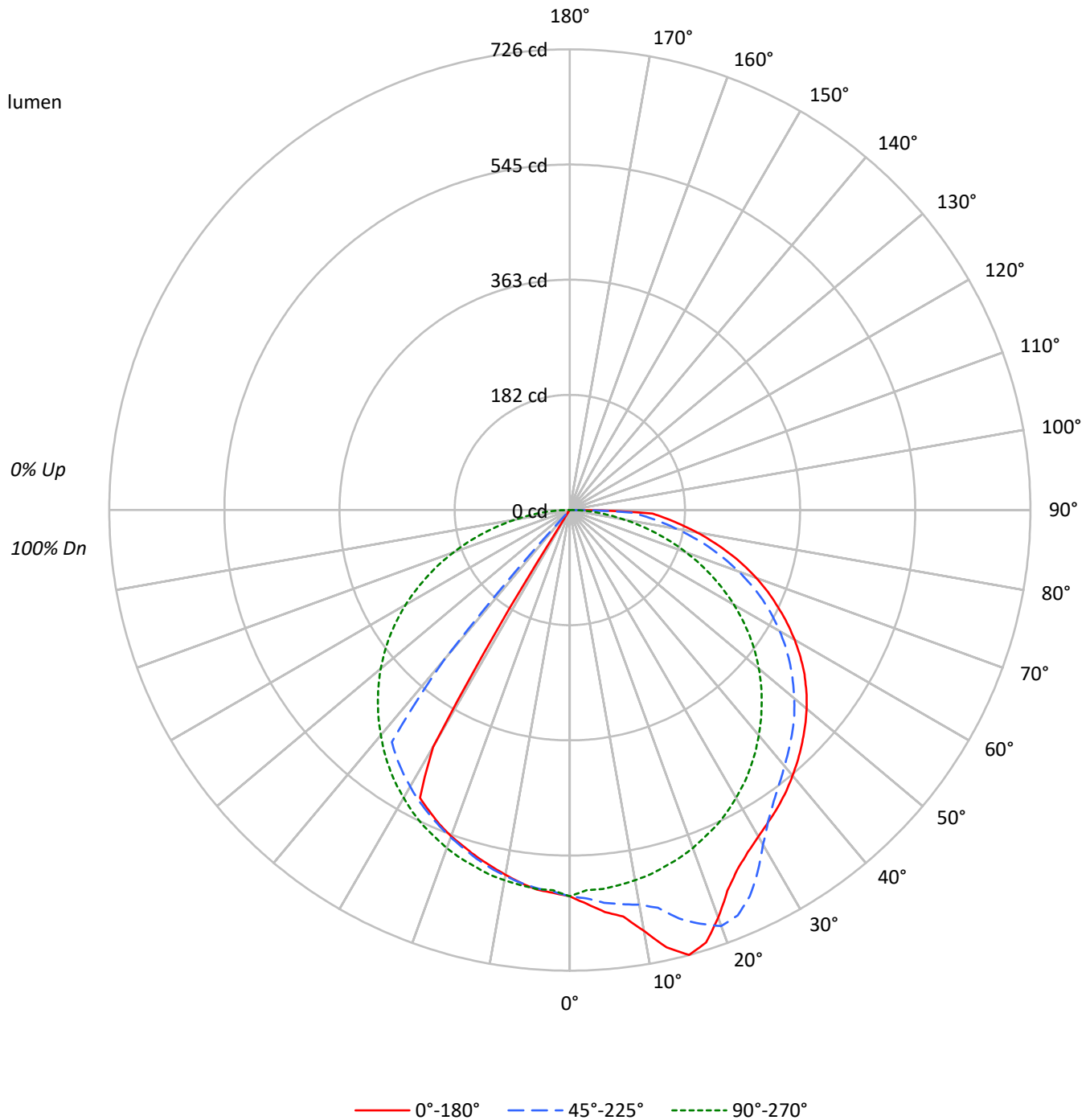
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1647.0 lumens
Efficiency: N/A
Efficacy: 118.5 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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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°	15892	15892	15892	15892	15892
5°	16665	16283	15706	15680	15735
10°	17858	16747	15702	15519	15472
15°	19620	18017	15709	15369	15296
20°	18996	19382	15750	15248	15198
25°	17999	19344	15789	15196	15086
30°	17919	18362	15788	15176	12990
35°	18224	17858	15812	15177	178
40°	18619	17944	15790	10470	119
45°	19129	18306	15795	192	78
50°	19797	18765	15804	142	28
55°	20551	19300	15758	96	14
60°	21372	19952	15618	37	16
65°	22376	20738	15333	43	43
70°	23870	21610	14847	53	53
75°	26126	22999	14213	141	71
80°	30671	25740	13156	210	105
85°	45652	36126	12312	300	210

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 78229 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	3.5
10°-20°	174.2	10.6
20°-30°	267.7	16.3
30°-40°	286.9	17.4
40°-50°	260.6	15.8
50°-60°	237.7	14.4
60°-70°	176.8	10.7
70°-80°	124.5	7.6
80°-90°	60.3	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°	500.2	30.4
0°-40°	787.1	47.8
0°-60°	1285.4	78.0
0°-90°	1647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1647.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	609	609	609	609	609	
5°	636	621	599	598	600	62
15°	726	667	581	569	566	200
25°	625	672	548	528	524	291
35°	572	560	496	476	6	358
45°	518	496	428	5	2	400
55°	452	424	346	2	0	403
65°	362	336	248	1	1	359
75°	259	228	141	1	1	273
85°	152	121	41	1	1	153
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°	608.7	608.7	608.7	608.7	608.7	608.7	608.7	608.7	608.7
2.5°	621.3	614.3	612.6	617.5	599.7	611.5	601.8	603.9	603.9
5°	635.9	626.2	621.3	619.9	599.3	607.3	598.3	598.3	600.4
7.5°	646.0	635.2	626.5	623.0	596.2	603.2	592.7	592.7	592.7
10°	673.6	653.4	631.7	625.5	592.3	597.6	585.4	586.1	583.6
12.5°	706.0	687.9	641.9	624.4	588.2	590.6	577.7	577.4	574.6
15°	725.9	712.3	666.6	623.0	581.2	583.3	568.6	567.6	565.9
17.5°	714.7	712.6	683.7	622.0	574.9	573.2	558.5	557.5	556.1
20°	683.7	688.9	697.6	619.9	566.9	563.4	548.8	548.1	547.0
22.5°	649.2	654.4	691.4	623.4	557.1	553.0	538.3	537.6	536.2
25°	624.8	624.8	671.5	631.7	548.1	540.4	527.5	526.5	523.7
27.5°	607.7	604.6	641.9	641.2	536.6	527.8	516.0	514.9	511.5
30°	594.4	589.2	609.1	645.7	523.7	514.3	503.4	502.4	430.9
32.5°	582.6	577.0	581.5	649.5	510.8	499.6	490.2	349.7	15.3
35°	571.8	565.5	560.3	646.7	496.1	485.0	476.2	10.1	5.6
37.5°	559.6	554.7	542.8	632.1	480.4	469.3	460.9	5.6	4.9
40°	546.3	541.8	526.5	610.5	463.3	453.9	307.2	4.9	3.5
42.5°	532.7	529.2	511.1	579.1	446.3	436.9	9.8	3.8	2.8
45°	518.1	514.9	495.8	541.1	427.8	419.1	5.2	2.8	2.1
47.5°	503.1	498.6	479.7	500.3	409.0	400.2	4.5	2.1	1.4
50°	487.4	482.5	462.0	464.4	389.1	380.4	3.5	1.4	0.7
52.5°	470.0	464.0	443.1	432.0	368.2	360.2	2.8	0.7	0.3
55°	451.5	444.9	424.0	403.7	346.2	337.1	2.1	0.7	0.3
57.5°	430.9	423.6	403.7	376.9	322.8	228.0	1.4	0.7	0.3
60°	409.3	402.0	382.1	351.8	299.1	15.7	0.7	0.7	0.3
62.5°	386.3	378.6	359.5	326.3	273.7	12.9	0.7	0.7	0.7
65°	362.2	353.2	335.7	300.2	248.2	10.8	0.7	0.7	0.7
67.5°	338.2	326.7	310.3	273.3	222.1	9.1	0.7	0.7	0.7
70°	312.7	300.2	283.1	246.1	194.5	7.3	0.7	0.7	0.7
72.5°	286.6	274.4	255.9	218.6	168.7	5.6	0.7	0.7	0.7
75°	259.0	247.9	228.0	191.1	140.9	4.2	1.4	0.7	0.7
77.5°	230.5	221.7	199.4	162.8	113.7	2.8	1.4	0.7	0.7
80°	204.0	194.2	171.2	134.2	87.5	2.1	1.4	1.0	0.7
82.5°	176.8	168.0	145.0	108.1	62.8	1.7	1.4	1.0	0.7
85°	152.4	144.0	120.6	84.4	41.1	1.4	1.0	1.0	0.7
87.5°	130.7	123.1	100.1	61.7	23.4	1.0	1.0	1.0	0.7
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	24.14	25.76	24.51	26.07	26.38	19.57	21.19	19.94	21.50	21.82
	3H	26.59	28.05	26.96	28.38	28.74	20.22	21.68	20.59	22.01	22.37
	4H	27.71	29.09	28.11	29.44	29.82	20.36	21.74	20.76	22.09	22.47
	6H	28.81	30.09	29.22	30.45	30.84	20.40	21.69	20.81	22.05	22.44
	8H	29.33	30.56	29.76	30.95	31.35	20.39	21.62	20.81	22.01	22.40
	12H	29.90	31.08	30.33	31.46	31.89	20.37	21.55	20.80	21.93	22.36
4H	2H	24.80	26.18	25.20	26.53	26.90	20.70	22.08	21.10	22.43	22.81
	3H	27.49	28.66	27.90	29.05	29.45	22.04	23.21	22.45	23.61	24.01
	4H	28.78	29.85	29.21	30.26	30.69	22.58	23.64	23.01	24.05	24.49
	6H	30.06	31.00	30.52	31.44	31.89	22.85	23.79	23.31	24.23	24.68
	8H	30.69	31.57	31.15	32.01	32.47	22.89	23.77	23.35	24.21	24.67
	12H	31.38	32.17	31.86	32.64	33.11	22.90	23.69	23.38	24.17	24.64
8H	4H	29.15	30.02	29.61	30.46	30.93	23.53	24.40	23.98	24.84	25.31
	6H	30.63	31.37	31.12	31.85	32.33	24.12	24.85	24.61	25.34	25.81
	8H	31.41	32.08	31.92	32.58	33.07	24.29	24.96	24.80	25.46	25.95
	12H	32.30	32.89	32.81	33.38	33.94	24.40	24.99	24.90	25.48	26.04
12H	4H	29.19	29.98	29.67	30.45	30.92	23.74	24.53	24.22	25.01	25.48
	6H	30.72	31.38	31.22	31.89	32.37	24.47	25.13	24.97	25.64	26.12
	8H	31.60	32.19	32.10	32.68	33.24	24.78	25.37	25.28	25.86	26.42