

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: P892990

Luminaire Tested: 2MB-SC3-ASYMR-UNV-CC93-MID-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892990
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-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 90CRI, 3500K CCT, MID setting
Light Source: -
Ballast/Driver: -

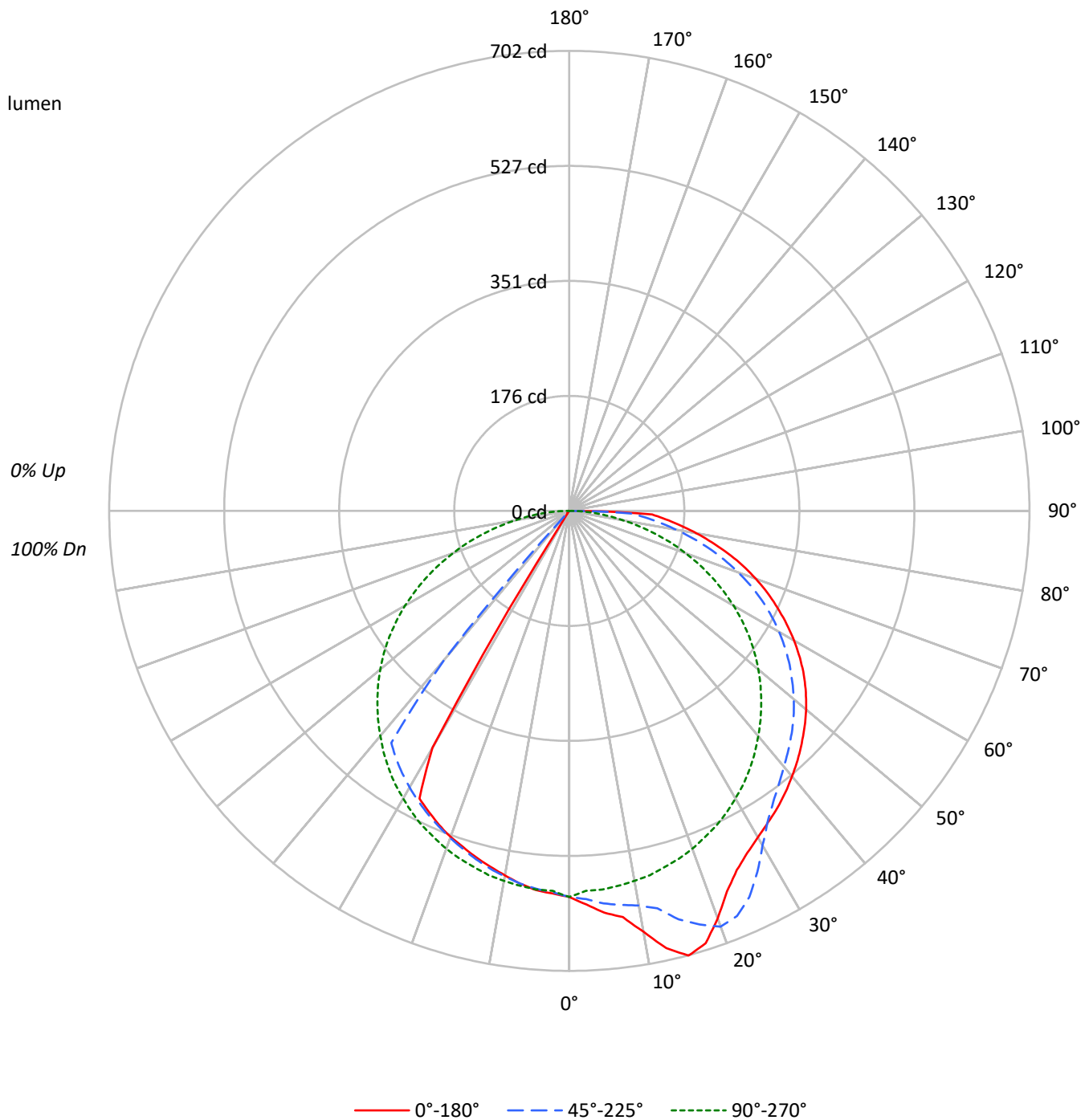
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1594.0 lumens
Efficiency: N/A
Efficacy: 114.7 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°	15380	15380	15380	15380	15380
5°	16131	15759	15200	15174	15227
10°	17282	16209	15199	15018	14976
15°	18988	17439	15204	14874	14801
20°	18384	18759	15245	14756	14709
25°	17420	18722	15279	14706	14599
30°	17343	17772	15278	14688	12574
35°	17638	17281	15305	14690	172
40°	18019	17365	15282	10132	116
45°	18513	17715	15286	188	74
50°	19159	18160	15296	138	28
55°	19891	18676	15253	91	14
60°	20683	19309	15116	37	16
65°	21659	20071	14839	43	43
70°	23106	20916	14374	53	53
75°	25289	22263	13749	131	71
80°	29679	24913	12735	195	105
85°	44184	34958	11922	300	210

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 75715 cd/sqm



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CATALOG NUMBER: 2MB-SC3-ASYMR-UNV-CC93-MID-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.5	3.5
10°-20°	168.6	10.6
20°-30°	259.1	16.3
30°-40°	277.7	17.4
40°-50°	252.2	15.8
50°-60°	230.0	14.4
60°-70°	171.1	10.7
70°-80°	120.5	7.6
80°-90°	58.3	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°	484.1	30.4
0°-40°	761.8	47.8
0°-60°	1244.1	78.0
0°-90°	1594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1594.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	589	589	589	589	589	
5°	616	601	580	579	581	60
15°	702	645	562	550	548	194
25°	605	650	530	510	507	281
35°	553	542	480	461	5	347
45°	501	480	414	5	2	387
55°	437	410	335	2	0	390
65°	351	325	240	1	1	347
75°	251	221	136	1	1	264
85°	148	117	40	1	1	148
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°	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1
2.5°	601.3	594.5	592.9	597.6	580.4	591.8	582.4	584.4	584.4
5°	615.5	606.0	601.3	599.9	580.0	587.8	579.0	579.0	581.0
7.5°	625.3	614.8	606.4	603.0	577.0	583.7	573.6	573.6	573.6
10°	651.9	632.3	611.4	605.3	573.3	578.3	566.5	567.2	564.9
12.5°	683.3	665.7	621.2	604.3	569.2	571.6	559.1	558.8	556.1
15°	702.5	689.4	645.2	603.0	562.5	564.5	550.3	549.3	547.6
17.5°	691.7	689.7	661.7	602.0	556.4	554.7	540.6	539.5	538.2
20°	661.7	666.8	675.2	599.9	548.7	545.3	531.1	530.4	529.4
22.5°	628.3	633.3	669.1	603.3	539.2	535.2	521.0	520.3	519.0
25°	604.7	604.7	649.9	611.4	530.4	523.0	510.5	509.5	506.8
27.5°	588.1	585.1	621.2	620.5	519.3	510.9	499.4	498.4	495.0
30°	575.3	570.3	589.5	624.9	506.8	497.7	487.2	486.2	417.1
32.5°	563.8	558.4	562.8	628.6	494.3	483.5	474.4	338.4	14.8
35°	553.4	547.3	542.2	625.9	480.2	469.4	460.9	9.8	5.4
37.5°	541.6	536.8	525.4	611.8	465.0	454.2	446.1	5.4	4.7
40°	528.7	524.4	509.5	590.8	448.4	439.3	297.3	4.7	3.4
42.5°	515.6	512.2	494.7	560.5	431.9	422.8	9.4	3.7	2.7
45°	501.4	498.4	479.8	523.7	414.0	405.6	5.1	2.7	2.0
47.5°	486.9	482.5	464.3	484.2	395.8	387.4	4.4	2.0	1.3
50°	471.7	467.0	447.1	449.5	376.6	368.1	3.4	1.3	0.7
52.5°	454.9	449.1	428.9	418.1	356.3	348.6	2.7	0.7	0.3
55°	437.0	430.6	410.3	390.7	335.1	326.3	2.0	0.7	0.3
57.5°	417.1	410.0	390.7	364.8	312.5	220.7	1.3	0.7	0.3
60°	396.1	389.1	369.8	340.5	289.5	15.2	0.7	0.7	0.3
62.5°	373.9	366.4	347.9	315.8	264.9	12.5	0.7	0.7	0.7
65°	350.6	341.8	324.9	290.5	240.2	10.5	0.7	0.7	0.7
67.5°	327.3	316.2	300.3	264.5	214.9	8.8	0.7	0.7	0.7
70°	302.7	290.5	274.0	238.2	188.3	7.1	0.7	0.7	0.7
72.5°	277.4	265.6	247.7	211.6	163.3	5.4	0.7	0.7	0.7
75°	250.7	239.9	220.7	184.9	136.3	4.0	1.3	0.7	0.7
77.5°	223.0	214.6	193.0	157.6	110.0	2.7	1.3	0.7	0.7
80°	197.4	187.9	165.7	129.9	84.7	2.0	1.3	1.0	0.7
82.5°	171.1	162.6	140.4	104.6	60.7	1.7	1.3	1.0	0.7
85°	147.5	139.4	116.7	81.7	39.8	1.3	1.0	1.0	0.7
87.5°	126.5	119.1	96.8	59.7	22.6	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	24.03	25.64	24.39	25.96	26.27	19.46	21.08	19.83	21.39	21.70
	3H	26.47	27.94	26.85	28.27	28.63	20.10	21.57	20.48	21.89	22.25
	4H	27.60	28.98	28.00	29.33	29.70	20.25	21.63	20.65	21.98	22.35
	6H	28.69	29.98	29.10	30.34	30.73	20.29	21.57	20.70	21.94	22.33
	8H	29.22	30.45	29.65	30.84	31.24	20.28	21.50	20.70	21.89	22.29
	12H	29.79	30.97	30.22	31.35	31.78	20.26	21.44	20.69	21.82	22.25
4H	2H	24.68	26.07	25.08	26.41	26.79	20.59	21.97	20.99	22.32	22.69
	3H	27.37	28.54	27.78	28.94	29.34	21.93	23.10	22.34	23.50	23.90
	4H	28.67	29.73	29.10	30.14	30.58	22.47	23.53	22.90	23.94	24.38
	6H	29.95	30.88	30.40	31.32	31.78	22.74	23.67	23.19	24.11	24.57
	8H	30.58	31.45	31.04	31.90	32.36	22.78	23.65	23.24	24.10	24.56
	12H	31.26	32.06	31.74	32.53	33.00	22.79	23.58	23.27	24.05	24.52
8H	4H	29.03	29.91	29.49	30.35	30.82	23.41	24.29	23.87	24.73	25.20
	6H	30.52	31.25	31.01	31.74	32.21	24.00	24.74	24.49	25.23	25.70
	8H	31.30	31.96	31.81	32.47	32.95	24.18	24.84	24.69	25.35	25.83
	12H	32.19	32.78	32.69	33.27	33.83	24.28	24.87	24.79	25.36	25.92
12H	4H	29.07	29.86	29.55	30.34	30.81	23.63	24.42	24.11	24.90	25.36
	6H	30.60	31.27	31.11	31.77	32.26	24.35	25.02	24.86	25.52	26.01
	8H	31.48	32.07	31.99	32.56	33.12	24.66	25.26	25.17	25.75	26.30