

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: P893074

Luminaire Tested: 2MB-SC3-LVRF-UNV-CC93-HI-3500K

Issue Date: 11/11/2024

**Test Information**

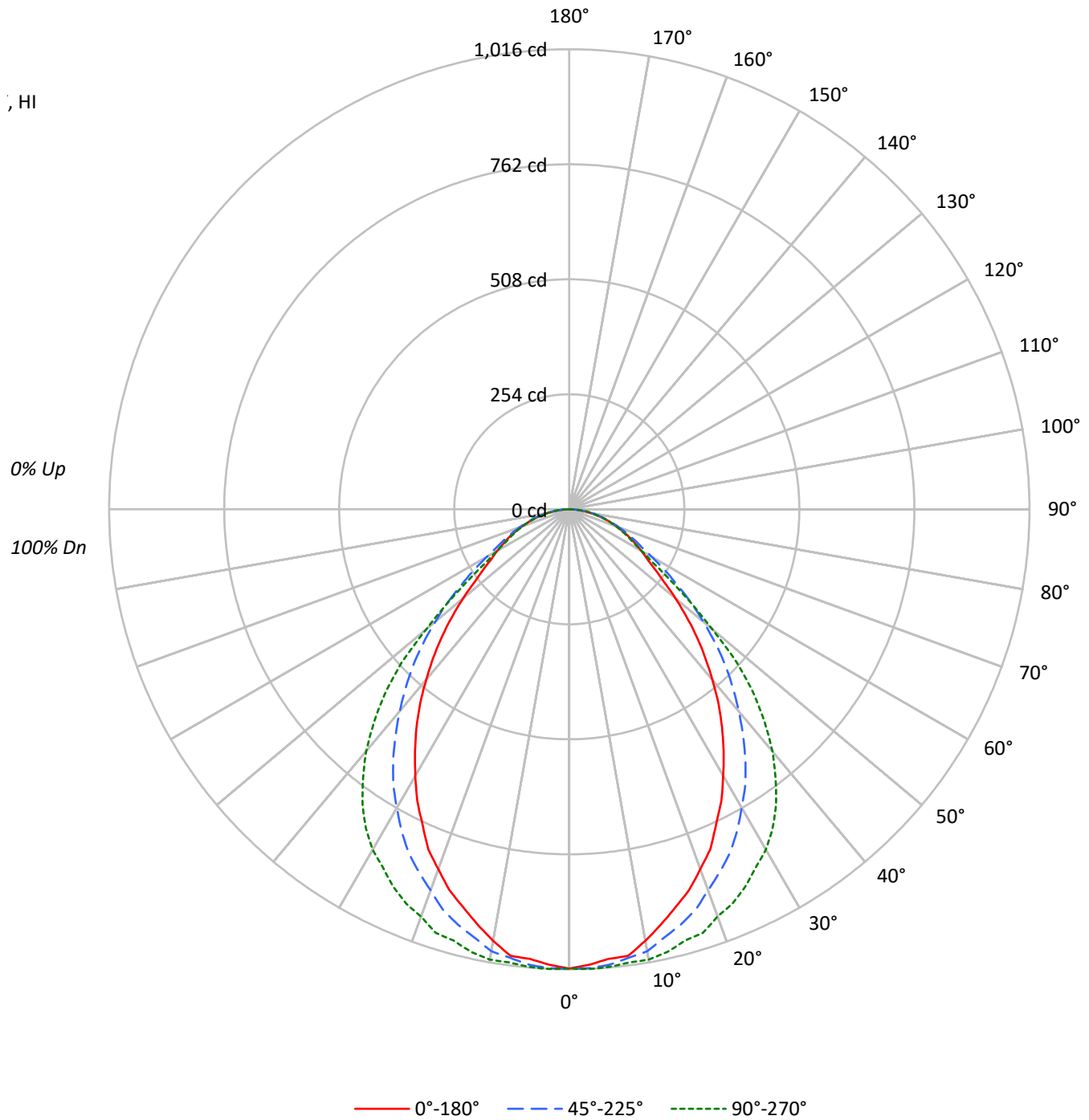
Test Method: LM-79-2019  
Report Number: P893074  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-LVRF-UNV-CC93-HI-3500K  
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 3500K CCT  
lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2056.0 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.26 / 1.21  
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 5.39961257980444  
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	100	97	100	97	94	96	94	91	92	90	89	89	89	89	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	69	61	54	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	42	42	42	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	38	38	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	35	35	35	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	32	32	32	31

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	14511	14511	14511
5°	14311	14499	14567
10°	14056	14395	14667
15°	13455	14065	14607
20°	12875	13631	14572
25°	12105	13230	14517
30°	11228	12576	14341
35°	10265	11839	13901
40°	9175	10872	13025
45°	8042	9863	11647
50°	6801	8597	9160
55°	5751	7225	6712
60°	5259	6034	5284
65°	4983	5301	4793
70°	4668	4902	4588
75°	4355	4610	4405
80°	4020	4325	4251
85°	3545	3841	4612

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 11647 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.7	4.7
10°-20°	267.8	13.0
20°-30°	386.0	18.8
30°-40°	425.8	20.7
40°-50°	372.7	18.1
50°-60°	244.9	11.9
60°-70°	149.7	7.3
70°-80°	86.6	4.2
80°-90°	26.9	1.3
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°	749.5	36.5
0°-40°	1175.3	57.2
0°-60°	1792.9	87.2
0°-90°	2056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2056.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1014	1014	1014	1014	1014	
5°	997	1007	1010	1015	1014	95
15°	908	924	950	981	986	256
25°	767	793	838	889	920	353
35°	588	613	678	753	796	366
45°	398	422	488	548	576	306
55°	231	243	290	291	269	210
65°	147	147	157	150	142	145
75°	79	79	83	85	80	84
85°	22	22	23	25	28	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1014.4	1014.4	1014.4	1014.4	1014.4
2.5°	1006.9	1012.6	1014.4	1018.2	1016.3
5°	996.6	1006.9	1009.7	1015.4	1014.4
7.5°	994.7	991.0	999.4	1010.7	1009.7
10°	967.6	975.1	991.0	1007.9	1009.7
12.5°	938.5	950.7	968.5	997.6	1001.3
15°	908.5	923.5	949.7	980.7	986.3
17.5°	881.3	896.3	927.2	961.9	980.7
20°	845.7	866.3	895.4	938.5	957.2
22.5°	812.9	829.7	867.2	914.1	942.2
25°	766.9	793.2	838.2	888.8	919.7
27.5°	726.6	751.0	801.6	857.9	891.6
30°	679.7	706.9	761.3	824.1	868.2
32.5°	633.8	659.1	722.9	787.5	835.4
35°	587.8	613.2	677.9	752.9	796.0
37.5°	541.0	567.2	630.0	706.9	748.2
40°	491.3	521.3	582.2	658.2	697.5
42.5°	444.4	472.5	534.4	608.5	638.5
45°	397.5	421.9	487.5	547.5	575.7
47.5°	350.6	374.1	436.9	486.6	502.5
50°	305.6	327.2	386.3	417.2	411.6
52.5°	263.5	283.1	339.4	351.6	335.6
55°	230.6	242.8	289.7	290.6	269.1
57.5°	203.4	212.8	249.4	240.0	216.6
60°	183.8	186.6	210.9	200.6	184.7
62.5°	164.1	165.9	179.1	171.6	159.4
65°	147.2	147.2	156.6	150.0	141.6
67.5°	128.4	129.4	135.9	132.2	125.6
70°	111.6	111.6	117.2	117.2	109.7
72.5°	94.7	94.7	99.4	100.3	95.6
75°	78.8	78.8	83.4	85.3	79.7
77.5°	63.8	63.8	67.5	70.3	63.8
80°	48.8	48.8	52.5	55.3	51.6
82.5°	34.7	35.6	37.5	40.3	40.3
85°	21.6	21.6	23.4	25.3	28.1
87.5°	9.4	10.3	11.3	12.2	14.1
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	16.71	18.18	17.07	18.50	18.81	17.45	18.93	17.82	19.24	19.55
	3H	18.30	19.62	18.68	19.95	20.32	18.79	20.11	19.17	20.44	20.80
	4H	18.92	20.16	19.32	20.51	20.89	19.36	20.60	19.76	20.95	21.33
	6H	19.40	20.54	19.81	20.91	21.30	19.82	20.96	20.23	21.33	21.72
	8H	19.56	20.64	19.99	21.03	21.44	20.00	21.09	20.43	21.48	21.88
	12H	19.66	20.70	20.09	21.09	21.51	20.15	21.19	20.58	21.57	22.00
4H	2H	17.33	18.57	17.73	18.92	19.30	17.93	19.17	18.33	19.52	19.90
	3H	19.14	20.16	19.55	20.57	20.97	19.54	20.56	19.95	20.96	21.36
	4H	19.88	20.80	20.31	21.21	21.65	20.26	21.19	20.70	21.60	22.04
	6H	20.48	21.28	20.93	21.72	22.18	20.88	21.68	21.33	22.12	22.58
	8H	20.68	21.43	21.15	21.87	22.34	21.11	21.86	21.58	22.31	22.77
	12H	20.83	21.50	21.31	21.98	22.45	21.32	21.98	21.80	22.46	22.93
8H	4H	20.19	20.94	20.65	21.38	21.85	20.53	21.28	21.00	21.72	22.19
	6H	20.91	21.53	21.41	22.03	22.50	21.29	21.91	21.78	22.40	22.88
	8H	21.19	21.75	21.71	22.26	22.75	21.61	22.17	22.13	22.68	23.17
	12H	21.42	21.91	21.93	22.41	22.97	21.91	22.40	22.42	22.89	23.46
12H	4H	20.22	20.89	20.70	21.37	21.84	20.55	21.22	21.03	21.70	22.17
	6H	20.98	21.54	21.49	22.05	22.54	21.33	21.89	21.85	22.40	22.89
	8H	21.32	21.81	21.83	22.31	22.87	21.72	22.22	22.23	22.71	23.27