

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: P894818

Luminaire Tested: 8TMB-18HL-LVRF-UNV-L935

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P894818  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-18HL-LVRF-UNV-L935  
Description: 18000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 3500K (C)  
Light Source: -  
Ballast/Driver: -

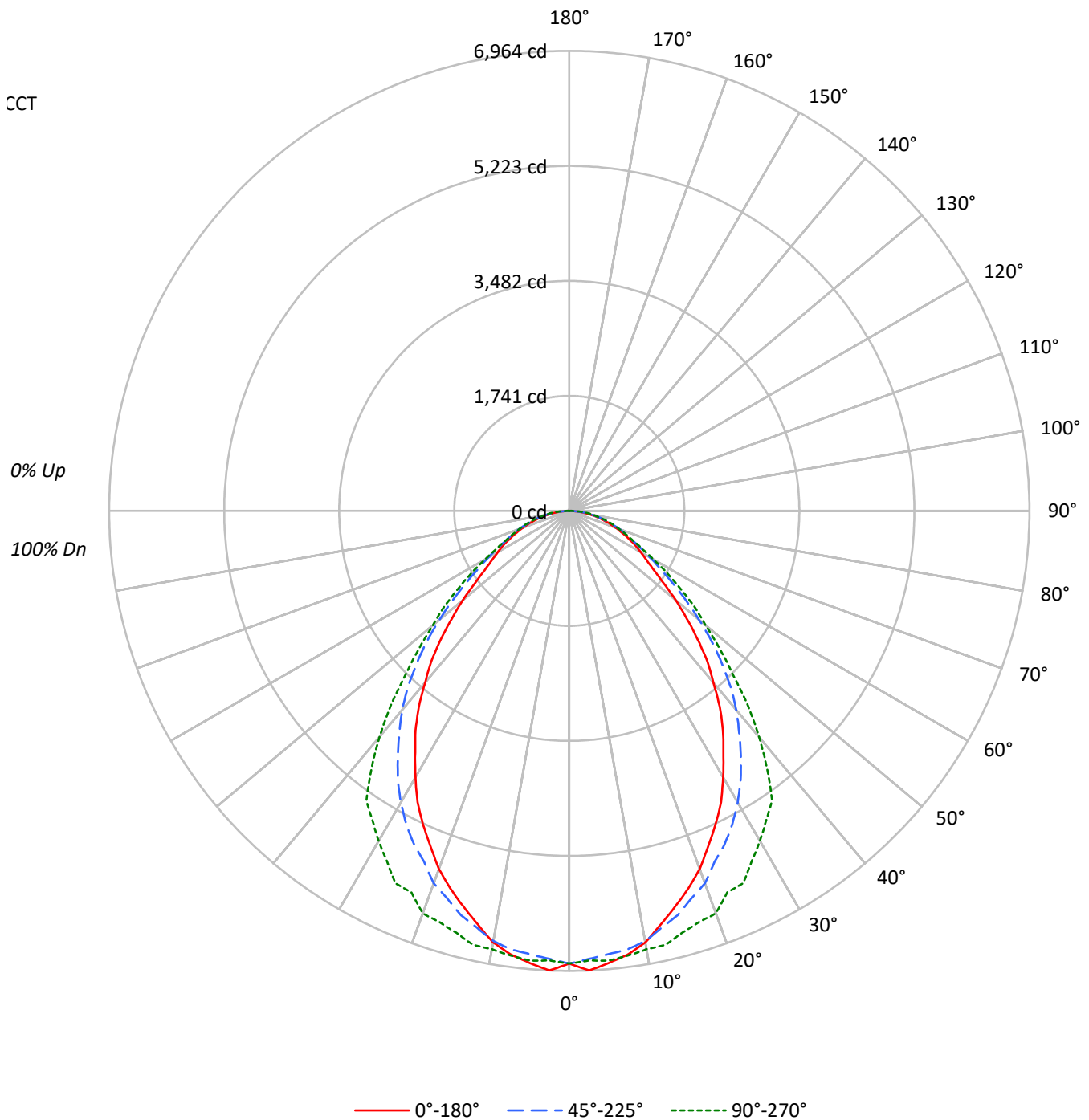
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13892.0 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.25 / 1.21  
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 134.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 8.62  
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	93	91	92	90	89	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	52	52	52	50
6	75	62	54	48	73	61	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	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	64	52	44	39	50	44	39	49	43	39	48	43	38	38	38	38	37
9	61	48	41	36	60	48	40	35	47	40	35	46	40	35	45	39	35	35	35	35	33
10	57	45	37	33	56	44	37	32	43	37	32	43	36	32	42	36	32	32	32	32	30

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

	0°	45°	90°
0°	24310	24310	24310
5°	24468	23994	24337
10°	23895	23821	24279
15°	22767	23271	24280
20°	21779	22653	24478
25°	20504	21787	24353
30°	19075	20879	23640
35°	17567	19598	23183
40°	15710	18215	20701
45°	13772	16383	17555
50°	11623	14155	14856
55°	9642	11847	12671
60°	8866	10073	10451
65°	8306	8857	8925
70°	7735	8394	8329
75°	7216	7835	8116
80°	6739	7282	7785
85°	5671	6172	8590

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 17555 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	646.7	4.7
10°-20°	1803.9	13.0
20°-30°	2597.9	18.7
30°-40°	2868.1	20.6
40°-50°	2461.0	17.7
50°-60°	1676.6	12.1
60°-70°	1054.7	7.6
70°-80°	600.5	4.3
80°-90°	182.5	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°	5048.5	36.3
0°-40°	7916.7	57.0
0°-60°	12054.3	86.8
0°-90°	13892.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13892.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6852	6852	6852	6852	6852	
5°	6870	6843	6737	6878	6833	648
15°	6198	6264	6335	6622	6610	1745
25°	5237	5342	5565	6014	6221	2405
35°	4056	4213	4525	5018	5352	2523
45°	2745	2927	3265	3462	3498	2115
55°	1559	1655	1915	2007	2048	1432
65°	989	1006	1055	1106	1063	983
75°	526	530	572	596	592	561
85°	139	143	152	180	211	160
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6851.5	6851.5	6851.5	6851.5	6851.5
2.5°	6964.1	6892.5	6790.0	6888.4	6812.6
5°	6869.9	6843.3	6736.8	6878.1	6833.1
7.5°	6773.7	6716.3	6697.9	6849.4	6790.0
10°	6632.3	6599.6	6611.8	6806.4	6738.8
12.5°	6409.1	6431.6	6460.3	6708.1	6728.6
15°	6198.1	6263.6	6335.3	6622.1	6609.8
17.5°	5991.2	6081.3	6148.9	6517.6	6527.9
20°	5768.0	5819.2	5999.4	6355.8	6482.8
22.5°	5491.4	5591.8	5747.5	6191.9	6249.3
25°	5237.4	5341.9	5565.2	6013.7	6220.6
27.5°	4971.2	5067.4	5344.0	5802.8	5978.9
30°	4655.7	4784.8	5096.1	5563.1	5770.0
32.5°	4340.3	4528.7	4827.8	5307.1	5546.7
35°	4055.6	4213.3	4524.6	5018.3	5352.2
37.5°	3740.2	3906.1	4221.5	4702.8	4915.9
40°	3391.9	3570.1	3932.7	4321.9	4469.3
42.5°	3092.9	3246.5	3611.1	3885.6	4002.3
45°	2744.7	2927.0	3265.0	3461.6	3498.5
47.5°	2408.8	2617.7	2920.8	3013.0	3084.7
50°	2105.6	2269.5	2564.4	2621.8	2691.4
52.5°	1796.3	1970.4	2228.5	2285.9	2388.3
55°	1558.7	1655.0	1915.1	2007.3	2048.3
57.5°	1384.6	1446.1	1630.4	1747.2	1759.5
60°	1249.4	1280.2	1419.5	1507.5	1472.7
62.5°	1124.5	1149.1	1218.7	1286.3	1241.3
65°	989.3	1005.7	1054.9	1106.1	1063.1
67.5°	862.3	880.8	925.8	962.7	925.8
70°	745.6	759.9	809.1	825.5	802.9
72.5°	637.0	643.2	684.1	712.8	698.5
75°	526.4	530.5	571.5	596.0	592.0
77.5°	426.0	432.2	467.0	489.5	477.2
80°	329.8	333.9	356.4	389.2	381.0
82.5°	231.5	239.6	254.0	282.7	305.2
85°	139.3	143.4	151.6	180.2	211.0
87.5°	53.3	57.4	61.4	75.8	100.4
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	18.54	20.02	18.91	20.33	20.65	19.90	21.38	20.27	21.69	22.01
	3H	20.12	21.44	20.50	21.77	22.14	21.19	22.51	21.57	22.84	23.20
	4H	20.73	21.97	21.13	22.32	22.70	21.74	22.98	22.14	23.33	23.71
	6H	21.20	22.34	21.61	22.71	23.10	22.19	23.34	22.61	23.71	24.10
	8H	21.35	22.44	21.78	22.83	23.24	22.38	23.47	22.81	23.86	24.26
	12H	21.45	22.49	21.88	22.88	23.31	22.54	23.58	22.97	23.96	24.39
4H	2H	19.15	20.40	19.55	20.74	21.12	20.27	21.51	20.67	21.86	22.24
	3H	20.96	21.99	21.37	22.39	22.79	21.82	22.85	22.24	23.25	23.66
	4H	21.68	22.61	22.12	23.02	23.46	22.53	23.45	22.96	23.87	24.31
	6H	22.28	23.08	22.74	23.53	23.99	23.14	23.94	23.60	24.39	24.85
	8H	22.48	23.23	22.95	23.68	24.15	23.38	24.14	23.85	24.58	25.05
	12H	22.62	23.29	23.10	23.77	24.24	23.60	24.27	24.08	24.75	25.22
8H	4H	22.01	22.76	22.47	23.21	23.67	22.76	23.51	23.23	23.96	24.43
	6H	22.73	23.35	23.23	23.85	24.32	23.51	24.13	24.00	24.62	25.10
	8H	23.01	23.57	23.52	24.08	24.57	23.84	24.40	24.35	24.91	25.40
	12H	23.22	23.72	23.73	24.21	24.77	24.14	24.64	24.65	25.13	25.70
12H	4H	22.05	22.72	22.53	23.20	23.67	22.78	23.45	23.26	23.93	24.40
	6H	22.80	23.36	23.32	23.87	24.36	23.54	24.10	24.06	24.61	25.10
	8H	23.14	23.63	23.65	24.12	24.69	23.93	24.43	24.44	24.92	25.49