

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: P894817

Luminaire Tested: 8TMB-18HL-LVRF-UNV-L930

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P894817  
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-L930  
Description: 18000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 3000K (C)  
Light Source: -  
Ballast/Driver: -

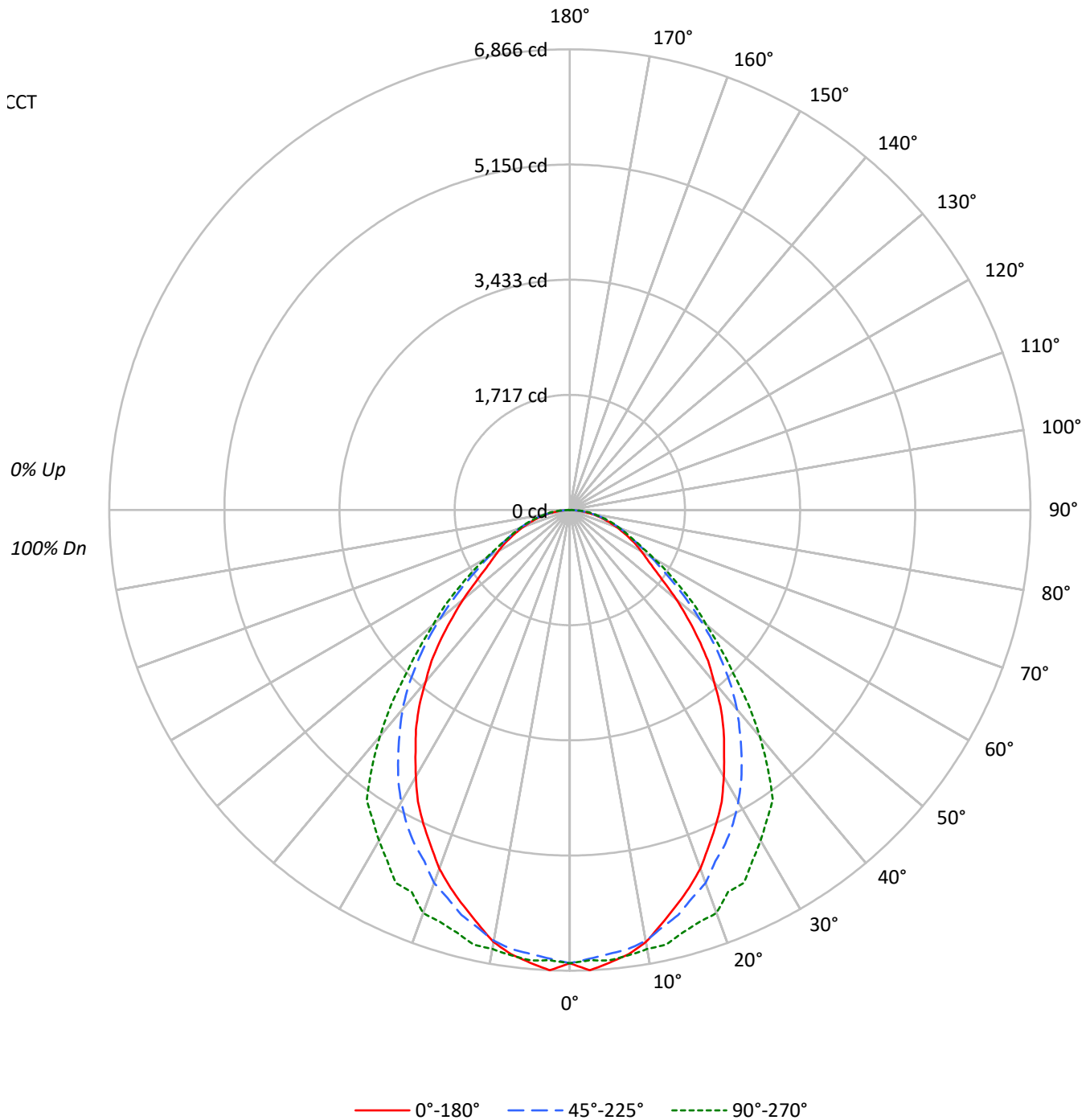
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13696.0 lumens  
Efficiency: N/A  
Efficacy: 101.6 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 (A<sub>in</sub>): 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	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	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	77	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	47	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	42	52	46	42	42	42	40
8	65	52	44	39	64	52	44	39	50	44	39	49	43	39	48	43	38	38	38	37
9	61	48	41	36	60	48	40	35	47	40	35	46	40	35	45	39	35	35	35	33
10	57	45	37	33	56	44	37	32	43	37	32	43	36	32	42	36	32	32	32	30

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

	0°	45°	90°
0°	23967	23967	23967
5°	24123	23656	23994
10°	23558	23486	23937
15°	22446	22943	23937
20°	21472	22333	24133
25°	20215	21480	24010
30°	18805	20584	23306
35°	17319	19322	22855
40°	15489	17958	20409
45°	13578	16152	17307
50°	11459	13956	14647
55°	9506	11680	12492
60°	8741	9931	10303
65°	8189	8731	8799
70°	7626	8275	8212
75°	7115	7724	8001
80°	6643	7180	7675
85°	5590	6082	8468

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 17307 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	637.6	4.7
10°-20°	1778.5	13.0
20°-30°	2561.3	18.7
30°-40°	2827.7	20.6
40°-50°	2426.3	17.7
50°-60°	1652.9	12.1
60°-70°	1039.8	7.6
70°-80°	592.0	4.3
80°-90°	180.0	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°	4977.3	36.3
0°-40°	7805.0	57.0
0°-60°	11884.2	86.8
0°-90°	13696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13696.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6755	6755	6755	6755	6755	
5°	6773	6747	6642	6781	6737	639
15°	6111	6175	6246	6529	6516	1720
25°	5164	5266	5487	5929	6133	2371
35°	3998	4154	4461	4948	5277	2487
45°	2706	2886	3219	3413	3449	2085
55°	1537	1632	1888	1979	2019	1412
65°	975	992	1040	1090	1048	969
75°	519	523	563	588	584	553
85°	137	141	149	178	208	158
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6754.8	6754.8	6754.8	6754.8	6754.8
2.5°	6865.9	6795.2	6694.2	6791.2	6716.5
5°	6773.0	6746.7	6641.7	6781.1	6736.7
7.5°	6678.1	6621.5	6603.4	6752.8	6694.2
10°	6538.8	6506.4	6518.6	6710.4	6643.8
12.5°	6318.6	6340.9	6369.1	6613.5	6633.7
15°	6110.6	6175.3	6245.9	6528.7	6516.5
17.5°	5906.7	5995.5	6062.2	6425.7	6435.8
20°	5686.6	5737.1	5914.8	6266.1	6391.3
22.5°	5414.0	5512.9	5666.4	6104.6	6161.1
25°	5163.6	5266.5	5486.7	5928.9	6132.9
27.5°	4901.0	4995.9	5268.6	5720.9	5894.6
30°	4590.0	4717.3	5024.2	5484.6	5688.6
32.5°	4279.1	4464.8	4759.7	5232.2	5468.5
35°	3998.4	4153.9	4460.8	4947.5	5276.6
37.5°	3687.4	3851.0	4161.9	4636.5	4846.5
40°	3344.1	3519.8	3877.2	4260.9	4406.3
42.5°	3049.3	3200.7	3560.2	3830.8	3945.9
45°	2706.0	2885.7	3218.9	3412.8	3449.1
47.5°	2374.8	2580.8	2879.6	2970.5	3041.2
50°	2075.9	2237.5	2528.3	2584.8	2653.5
52.5°	1771.0	1942.6	2197.1	2253.6	2354.6
55°	1536.7	1631.7	1888.1	1979.0	2019.4
57.5°	1365.1	1425.7	1607.4	1722.5	1734.6
60°	1231.8	1262.1	1399.4	1486.3	1451.9
62.5°	1108.6	1132.9	1201.5	1268.2	1223.7
65°	975.4	991.5	1040.0	1090.5	1048.1
67.5°	850.2	868.3	912.8	949.1	912.8
70°	735.1	749.2	797.7	813.8	791.6
72.5°	628.0	634.1	674.5	702.7	688.6
75°	519.0	523.0	563.4	587.6	583.6
77.5°	420.0	426.1	460.4	482.6	470.5
80°	325.1	329.2	351.4	383.7	375.6
82.5°	228.2	236.3	250.4	278.7	300.9
85°	137.3	141.4	149.4	177.7	208.0
87.5°	52.5	56.5	60.6	74.7	98.9
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	18.49	19.97	18.86	20.28	20.60	19.85	21.33	20.22	21.64	21.96
	3H	20.07	21.40	20.45	21.72	22.09	21.14	22.46	21.52	22.79	23.15
	4H	20.68	21.92	21.08	22.27	22.65	21.69	22.93	22.09	23.28	23.66
	6H	21.15	22.29	21.56	22.66	23.05	22.14	23.29	22.56	23.66	24.05
	8H	21.30	22.39	21.73	22.78	23.19	22.33	23.42	22.76	23.81	24.21
	12H	21.40	22.45	21.83	22.83	23.26	22.49	23.53	22.92	23.91	24.34
4H	2H	19.10	20.35	19.50	20.70	21.07	20.22	21.46	20.62	21.81	22.19
	3H	20.91	21.94	21.32	22.34	22.74	21.77	22.80	22.19	23.20	23.61
	4H	21.63	22.56	22.07	22.98	23.41	22.48	23.40	22.91	23.82	24.26
	6H	22.23	23.03	22.69	23.48	23.94	23.09	23.89	23.55	24.34	24.80
	8H	22.43	23.18	22.90	23.63	24.10	23.33	24.09	23.80	24.53	25.00
	12H	22.57	23.24	23.05	23.72	24.19	23.55	24.22	24.03	24.70	25.17
8H	4H	21.96	22.71	22.42	23.16	23.62	22.71	23.46	23.18	23.91	24.38
	6H	22.68	23.31	23.18	23.80	24.28	23.46	24.08	23.95	24.57	25.05
	8H	22.96	23.52	23.47	24.03	24.52	23.79	24.35	24.30	24.86	25.35
	12H	23.17	23.67	23.68	24.16	24.73	24.09	24.59	24.60	25.08	25.65
12H	4H	22.00	22.67	22.48	23.15	23.62	22.73	23.40	23.21	23.88	24.35
	6H	22.75	23.31	23.27	23.82	24.31	23.49	24.05	24.01	24.56	25.05
	8H	23.09	23.58	23.60	24.08	24.64	23.88	24.38	24.39	24.87	25.44