

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: P894820

Luminaire Tested: 8TMB-18HL-LVRF-UNV-L950

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P894820  
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-L950  
Description: 18000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 5000K (C)  
Light Source: -  
Ballast/Driver: -

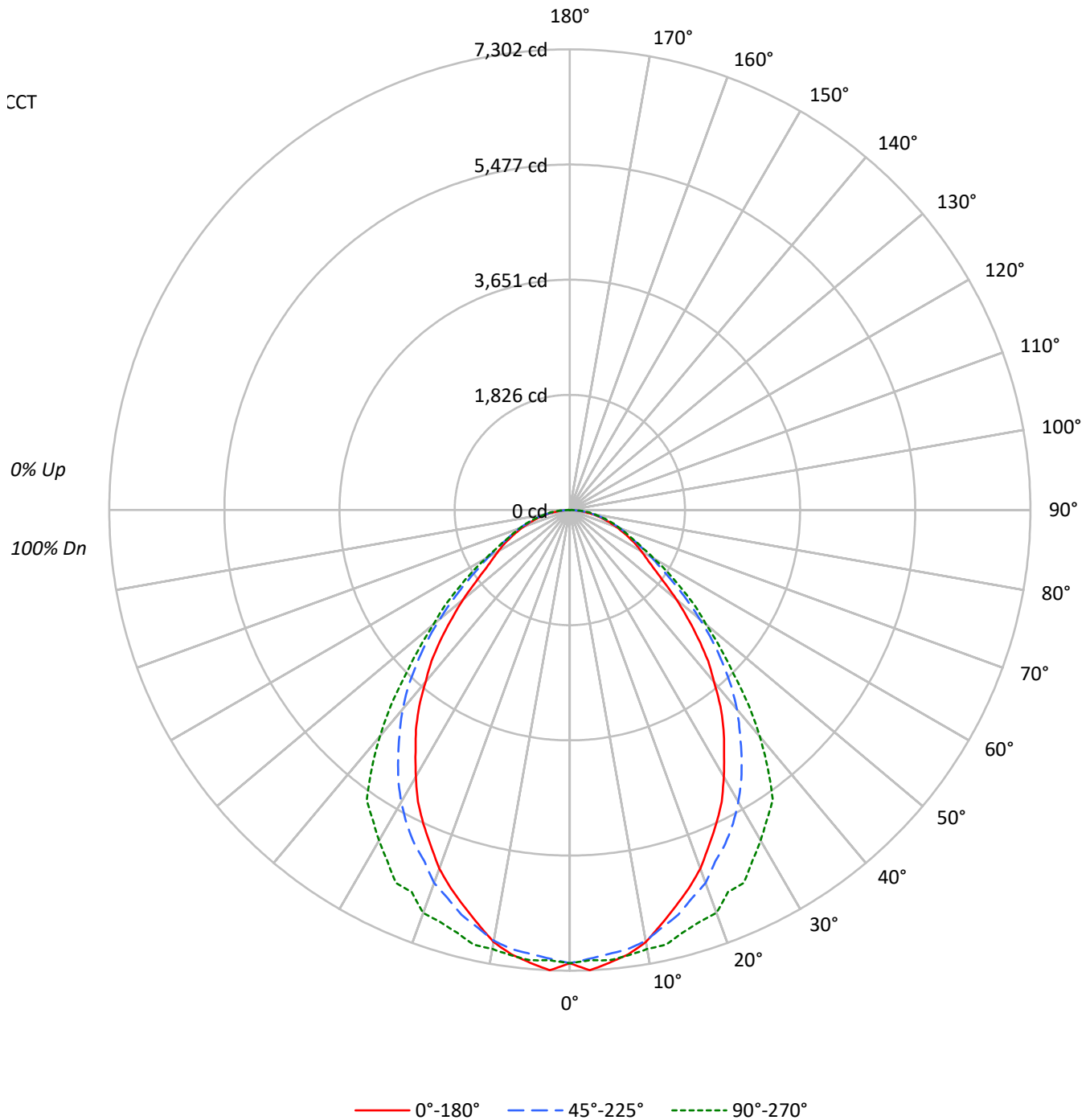
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14565.0 lumens  
Efficiency: N/A  
Efficacy: 108.0 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	
2	102	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75	75	
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65	65	
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57	57	
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	50	50	
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45	45	
7	70	57	49	43	68	56	49	43	55	48	43	53	47	42	52	46	42	40	40	
8	65	52	44	39	64	52	44	39	50	44	39	49	43	39	48	43	38	37	37	
9	61	48	41	36	60	48	40	35	47	40	35	46	40	35	45	39	35	33	33	
10	57	45	37	33	56	44	37	32	43	37	32	43	36	32	42	36	32	30	30	

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

	0°	45°	90°
0°	25488	25488	25488
5°	25654	25157	25516
10°	25053	24976	25455
15°	23871	24399	25456
20°	22834	23750	25664
25°	21498	22843	25533
30°	19999	21890	24785
35°	18418	20548	24306
40°	16472	19098	21704
45°	14440	17177	18405
50°	12186	14841	15576
55°	10110	12421	13284
60°	9296	10561	10957
65°	8708	9286	9358
70°	8109	8800	8733
75°	7566	8214	8508
80°	7064	7636	8161
85°	5944	6469	9005

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 18405 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	678.0	4.7
10°-20°	1891.3	13.0
20°-30°	2723.8	18.7
30°-40°	3007.1	20.6
40°-50°	2580.3	17.7
50°-60°	1757.8	12.1
60°-70°	1105.8	7.6
70°-80°	629.6	4.3
80°-90°	191.4	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°	5293.1	36.3
0°-40°	8300.2	57.0
0°-60°	12638.2	86.8
0°-90°	14565.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14565.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7183	7183	7183	7183	7183	
5°	7203	7175	7063	7211	7164	680
15°	6498	6567	6642	6943	6930	1830
25°	5491	5601	5835	6305	6522	2522
35°	4252	4417	4744	5261	5611	2645
45°	2878	3069	3423	3629	3668	2217
55°	1634	1735	2008	2105	2148	1501
65°	1037	1054	1106	1160	1115	1030
75°	552	556	599	625	621	588
85°	146	150	159	189	221	168
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7183.4	7183.4	7183.4	7183.4	7183.4
2.5°	7301.5	7226.4	7119.0	7222.1	7142.6
5°	7202.7	7174.8	7063.2	7211.3	7164.1
7.5°	7101.8	7041.7	7022.3	7181.3	7119.0
10°	6953.6	6919.3	6932.2	7136.2	7065.3
12.5°	6719.6	6743.2	6773.2	7033.1	7054.6
15°	6498.4	6567.1	6642.2	6942.9	6930.0
17.5°	6281.5	6375.9	6446.8	6833.4	6844.1
20°	6047.4	6101.1	6290.0	6663.7	6796.9
22.5°	5757.5	5862.7	6025.9	6491.9	6552.0
25°	5491.2	5600.7	5834.8	6305.1	6522.0
27.5°	5212.0	5312.9	5602.8	6083.9	6268.6
30°	4881.3	5016.6	5343.0	5832.6	6049.5
32.5°	4550.6	4748.1	5061.7	5564.2	5815.5
35°	4252.1	4417.4	4743.8	5261.4	5611.4
37.5°	3921.3	4095.3	4426.0	4930.7	5154.0
40°	3556.3	3743.1	4123.2	4531.2	4685.9
42.5°	3242.7	3403.8	3786.1	4073.8	4196.2
45°	2877.7	3068.8	3423.1	3629.3	3667.9
47.5°	2525.5	2744.5	3062.3	3159.0	3234.1
50°	2207.6	2379.4	2688.7	2748.8	2821.8
52.5°	1883.4	2065.9	2336.5	2396.6	2504.0
55°	1634.3	1735.2	2007.9	2104.6	2147.5
57.5°	1451.7	1516.1	1709.4	1831.8	1844.7
60°	1310.0	1342.2	1488.2	1580.6	1544.1
62.5°	1179.0	1204.8	1277.8	1348.6	1301.4
65°	1037.2	1054.4	1106.0	1159.7	1114.6
67.5°	904.1	923.4	970.7	1009.3	970.7
70°	781.7	796.7	848.3	865.4	841.8
72.5°	667.9	674.3	717.3	747.3	732.3
75°	551.9	556.2	599.2	624.9	620.6
77.5°	446.7	453.1	489.6	513.3	500.4
80°	345.7	350.0	373.7	408.0	399.4
82.5°	242.7	251.3	266.3	296.4	320.0
85°	146.0	150.3	158.9	189.0	221.2
87.5°	55.8	60.1	64.4	79.5	105.2
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	18.71	20.18	19.07	20.50	20.81	20.07	21.55	20.43	21.86	22.17
	3H	20.28	21.61	20.66	21.94	22.30	21.35	22.68	21.73	23.00	23.37
	4H	20.89	22.13	21.29	22.48	22.86	21.91	23.15	22.31	23.50	23.88
	6H	21.36	22.51	21.77	22.87	23.27	22.36	23.50	22.77	23.87	24.26
	8H	21.52	22.61	21.94	23.00	23.40	22.54	23.63	22.97	24.02	24.43
	12H	21.61	22.66	22.05	23.04	23.47	22.70	23.74	23.13	24.13	24.55
4H	2H	19.32	20.56	19.72	20.91	21.29	20.43	21.67	20.83	22.02	22.40
	3H	21.12	22.15	21.53	22.55	22.95	21.99	23.02	22.40	23.42	23.82
	4H	21.85	22.77	22.28	23.19	23.63	22.69	23.62	23.13	24.04	24.47
	6H	22.44	23.25	22.90	23.69	24.15	23.30	24.11	23.76	24.55	25.01
	8H	22.64	23.40	23.11	23.84	24.31	23.55	24.30	24.01	24.75	25.21
	12H	22.78	23.46	23.27	23.94	24.41	23.76	24.43	24.25	24.91	25.39
8H	4H	22.17	22.93	22.64	23.37	23.84	22.93	23.68	23.39	24.12	24.59
	6H	22.90	23.52	23.39	24.01	24.49	23.67	24.29	24.17	24.78	25.26
	8H	23.17	23.73	23.69	24.24	24.73	24.00	24.56	24.52	25.07	25.56
	12H	23.39	23.88	23.90	24.37	24.94	24.31	24.80	24.82	25.30	25.86
12H	4H	22.21	22.88	22.69	23.36	23.83	22.94	23.61	23.42	24.09	24.56
	6H	22.96	23.52	23.48	24.04	24.52	23.71	24.27	24.22	24.78	25.27
	8H	23.30	23.80	23.81	24.29	24.85	24.10	24.59	24.61	25.08	25.65