

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: P894802

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

Issue Date: 11/11/2024

**Test Information**

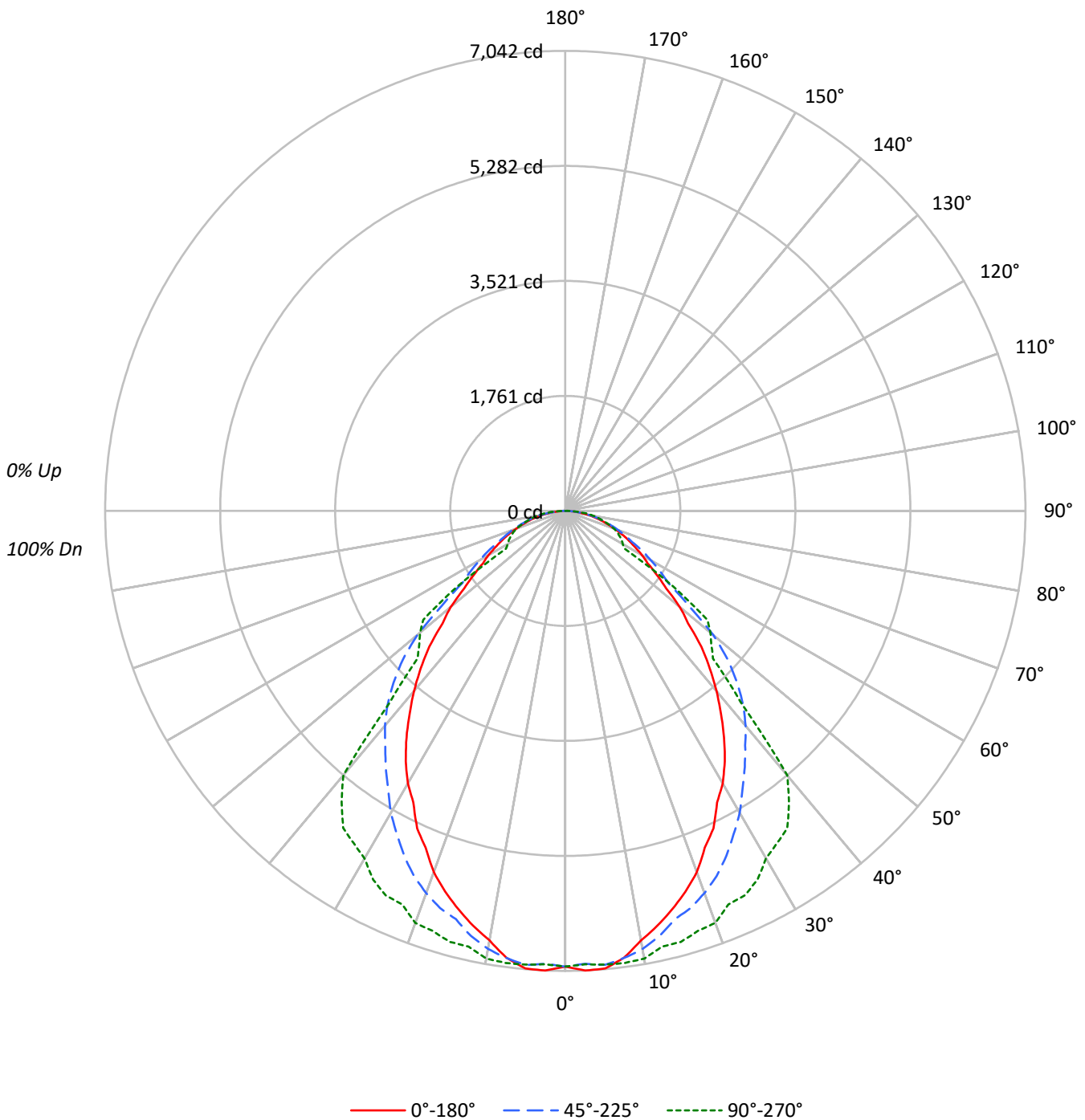
Test Method: LM-79-2019  
Report Number: P894802  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-18HL-LVR-UNV-L935  
Description: 18000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3500K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14600.0 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.32 / 1.26  
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	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	87	
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	77	75	
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	67	65	
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	57	
5	80	68	60	54	78	67	60	54	65	59	53	63	57	53	62	56	52	52	50	
6	74	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	40	
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	36	
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	35	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	30	

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

	0°	45°	90°
0°	24748	24748	24748
5°	25047	24850	24835
10°	24060	24532	25071
15°	23198	23770	25087
20°	22221	23505	25338
25°	20995	22815	25430
30°	19731	21863	25169
35°	18349	20736	25660
40°	16670	19877	24469
45°	14770	18656	16045
50°	12641	16305	16011
55°	10593	11899	12456
60°	9637	10742	7210
65°	9029	9511	7705
70°	8309	9010	8245
75°	7807	8453	8397
80°	7282	7993	8999
85°	6253	6672	9591

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 18656 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	662.8	4.5
10°-20°	1854.5	12.7
20°-30°	2702.7	18.5
30°-40°	3091.9	21.2
40°-50°	2645.0	18.1
50°-60°	1744.2	11.9
60°-70°	1054.5	7.2
70°-80°	645.1	4.4
80°-90°	199.3	1.4
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°	5220.0	35.8
0°-40°	8311.9	56.9
0°-60°	12701.2	87.0
0°-90°	14600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14600.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6975	6975	6975	6975	6975	
5°	7032	7026	6977	6963	6973	659
15°	6315	6389	6471	6885	6830	1775
25°	5363	5445	5828	6326	6496	2453
35°	4236	4449	4787	5539	5924	2639
45°	2944	3171	3718	3474	3198	2253
55°	1712	1809	1924	2280	2014	1558
65°	1075	1102	1133	1012	918	1063
75°	570	584	617	645	612	601
85°	154	152	164	195	236	174
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6974.9	6974.9	6974.9	6974.9	6974.9
2.5°	7042.5	7022.0	6938.0	7017.9	6946.2
5°	7032.2	7026.1	6976.9	6962.6	6972.8
7.5°	6897.1	6911.4	6903.2	7056.8	6979.0
10°	6677.9	6706.5	6809.0	7024.1	6958.5
12.5°	6505.8	6528.3	6665.6	6985.1	6831.5
15°	6315.3	6389.0	6471.0	6884.8	6829.5
17.5°	6110.5	6180.1	6374.7	6749.6	6743.4
20°	5885.1	6014.2	6225.2	6573.4	6710.6
22.5°	5579.9	5754.0	6051.1	6493.5	6520.1
25°	5362.8	5444.7	5827.8	6325.5	6495.6
27.5°	5033.0	5188.7	5579.9	6083.8	6364.5
30°	4815.9	4944.9	5336.2	5942.5	6143.2
32.5°	4543.4	4697.0	5047.3	5788.9	6030.6
35°	4236.1	4449.2	4787.2	5538.9	5924.0
37.5°	3912.5	4123.5	4522.9	5332.1	5622.9
40°	3599.1	3779.3	4291.5	5084.2	5282.9
42.5°	3277.5	3472.1	4027.2	4594.6	3973.9
45°	2943.6	3171.0	3717.9	3474.1	3197.6
47.5°	2548.2	2826.8	3375.8	2792.0	3029.6
50°	2290.1	2441.7	2953.8	2632.2	2900.6
52.5°	1948.1	2152.9	2372.1	2458.1	2740.8
55°	1712.5	1808.8	1923.5	2279.9	2013.6
57.5°	1495.4	1581.4	1714.5	1608.0	1073.4
60°	1358.1	1397.0	1513.8	1149.2	1016.0
62.5°	1202.4	1241.3	1327.4	1073.4	975.1
65°	1075.4	1102.1	1132.8	1011.9	917.7
67.5°	940.2	954.6	987.3	934.1	862.4
70°	800.9	821.4	868.5	854.2	794.8
72.5°	678.0	696.5	737.4	757.9	702.6
75°	569.5	583.8	616.6	645.3	612.5
77.5°	452.7	467.0	510.1	540.8	526.4
80°	356.4	358.5	391.2	422.0	440.4
82.5°	249.9	254.0	278.6	311.4	348.2
85°	153.6	151.6	163.9	194.6	235.6
87.5°	59.4	57.4	67.6	81.9	120.9
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	18.97	20.45	19.34	20.77	21.08	18.65	20.13	19.02	20.44	20.76
	3H	20.53	21.86	20.91	22.19	22.55	20.27	21.59	20.65	21.92	22.28
	4H	21.13	22.37	21.53	22.72	23.10	21.02	22.26	21.42	22.61	22.99
	6H	21.59	22.74	22.00	23.10	23.50	21.69	22.83	22.10	23.20	23.59
	8H	21.74	22.83	22.17	23.22	23.63	21.96	23.05	22.39	23.44	23.85
	12H	21.84	22.89	22.27	23.27	23.70	22.18	23.23	22.61	23.61	24.04
4H	2H	19.57	20.81	19.97	21.16	21.54	19.31	20.55	19.71	20.90	21.28
	3H	21.36	22.38	21.77	22.78	23.19	21.20	22.23	21.61	22.63	23.03
	4H	22.08	23.01	22.52	23.43	23.86	22.09	23.02	22.53	23.43	23.87
	6H	22.67	23.47	23.12	23.91	24.38	22.90	23.70	23.36	24.15	24.61
	8H	22.86	23.62	23.33	24.06	24.53	23.23	23.98	23.69	24.43	24.89
	12H	23.00	23.67	23.48	24.15	24.63	23.50	24.17	23.98	24.65	25.12
8H	4H	22.40	23.16	22.87	23.60	24.07	22.41	23.17	22.88	23.61	24.08
	6H	23.12	23.74	23.61	24.23	24.71	23.36	23.99	23.86	24.48	24.96
	8H	23.38	23.95	23.90	24.46	24.94	23.78	24.34	24.30	24.85	25.34
	12H	23.59	24.09	24.10	24.58	25.15	24.15	24.65	24.66	25.14	25.70
12H	4H	22.44	23.12	22.93	23.60	24.07	22.44	23.11	22.92	23.59	24.06
	6H	23.18	23.75	23.70	24.26	24.75	23.42	23.98	23.93	24.49	24.98
	8H	23.51	24.01	24.02	24.50	25.07	23.89	24.39	24.40	24.88	25.45