

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: P894602

Luminaire Tested: 8TMB-14HL-FLTU-UNV-L935

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P894602  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2403-334-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-14HL-FLTU-UNV-L935  
Description: 14000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 90CRI, 35  
Light Source: -  
Ballast/Driver: -

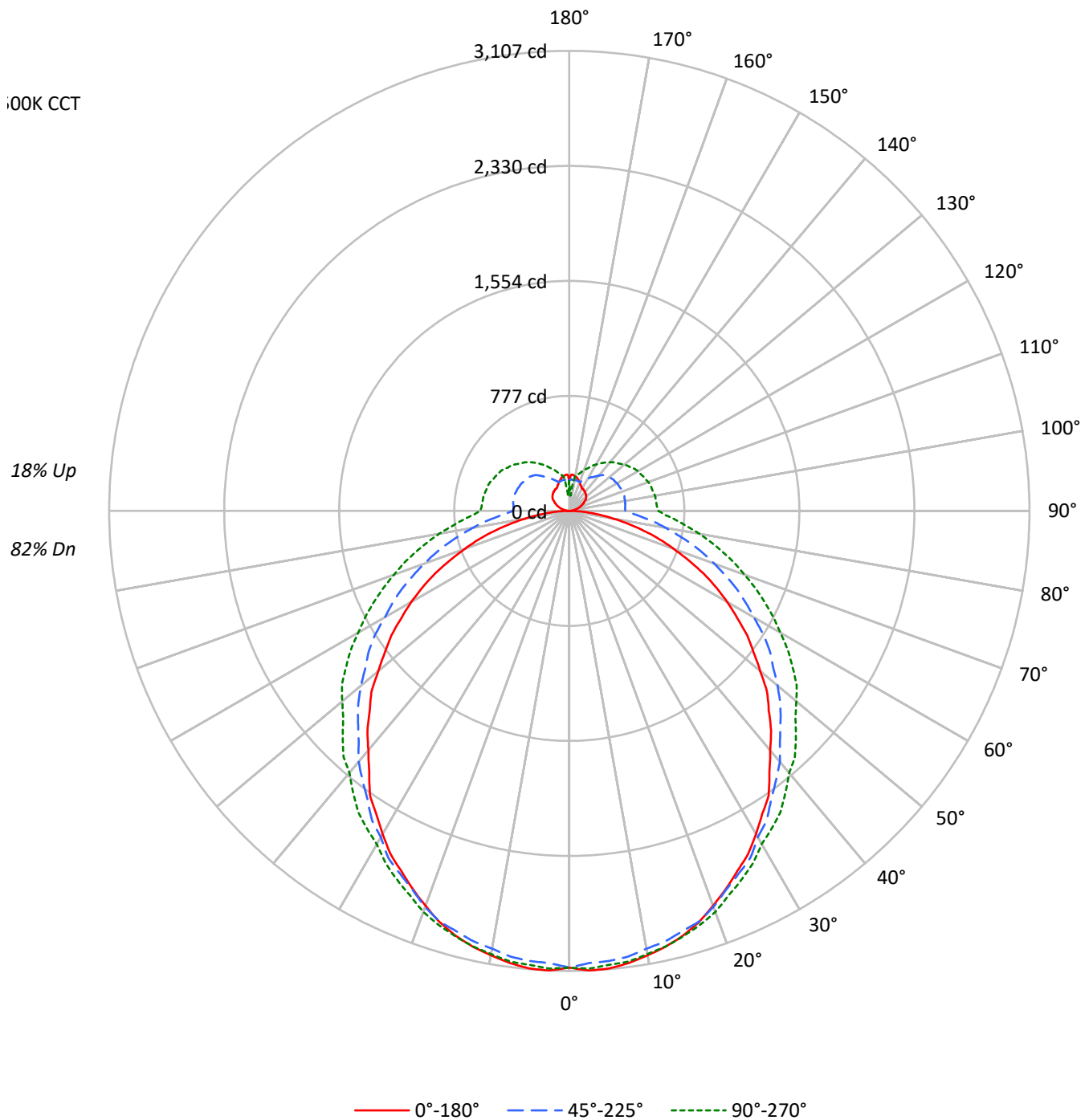
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11595.0 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 7.98' x H: 0.21')  
CIE Type: Semi-Direct

Input Watts (W): 103.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 5.03  
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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	86	86	86	82
1	103	98	93	89	99	94	90	86	87	83	80	80	77	74	73	71	69	69	69	69	66
2	93	85	77	71	89	81	75	69	75	70	65	69	65	61	63	60	57	57	57	57	54
3	85	74	66	59	81	71	63	57	66	59	54	60	55	51	56	51	48	48	48	48	45
4	78	65	56	49	74	63	55	48	58	51	46	54	48	43	50	45	41	41	41	41	38
5	71	58	49	42	68	56	48	41	52	45	39	48	42	37	44	39	35	35	35	35	33
6	66	52	43	37	63	50	42	36	47	40	34	43	37	33	40	35	31	31	31	31	28
7	61	47	38	32	58	46	37	32	42	35	30	39	33	29	37	31	27	27	27	27	25
8	56	43	34	29	54	42	34	28	39	32	27	36	30	26	34	28	24	24	24	24	22
9	53	39	31	26	50	38	30	25	36	29	24	33	27	23	31	26	22	22	22	22	20
10	49	36	28	23	47	35	28	23	33	26	22	31	25	21	29	24	20	20	20	20	18

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

	0°	45°	90°
0°	10943	10943	10943
5°	11024	10495	10460
10°	10932	10094	9982
15°	10832	9740	9527
20°	10616	9364	9075
25°	10382	8901	8575
30°	10173	8447	8089
35°	9982	8015	7777
40°	9567	7643	7326
45°	9312	7200	7012
50°	9010	6828	6682
55°	8747	6475	6386
60°	8367	5988	5990
65°	7935	5598	5617
70°	7266	5112	5211
75°	6571	4627	4825
80°	5396	4097	4435
85°	4060	3584	4069

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9312 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.1	2.5
10°-20°	834.2	7.2
20°-30°	1253.1	10.8
30°-40°	1501.9	13.0
40°-50°	1574.6	13.6
50°-60°	1477.1	12.7
60°-70°	1226.9	10.6
70°-80°	877.3	7.6
80°-90°	520.3	4.5
90°-100°	381.6	3.3
100°-110°	376.0	3.2
110°-120°	350.8	3.0
120°-130°	307.8	2.7
130°-140°	247.9	2.1
140°-150°	177.9	1.5
150°-160°	113.1	1.0
160°-170°	62.7	0.5
170°-180°	19.7	0.2
0°-30°	2379.5	20.5
0°-40°	3881.4	33.5
0°-60°	6933.2	59.8
0°-90°	9557.7	82.4
90°-120°	1108.4	9.6
90°-150°	1841.9	15.9
90°-180°	2037.0	17.6
0°-180°	11595.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3084	3084	3084	3084	3084	
5°	3102	3096	3051	3066	3078	294
15°	2970	2951	2940	2961	2974	836
25°	2684	2709	2704	2735	2750	1239
35°	2347	2355	2376	2445	2484	1457
45°	1904	1958	2017	2150	2163	1473
55°	1467	1514	1654	1788	1840	1305
65°	998	1073	1247	1414	1455	984
75°	526	647	849	1024	1072	556
85°	130	284	496	664	726	142
90°	5	172	379	541	600	11
95°	15	180	379	534	590	15
105°	52	198	385	528	577	56
115°	95	215	377	502	551	94
125°	136	221	365	465	508	119
135°	157	213	339	421	456	122
145°	170	197	279	370	397	107
155°	187	197	228	287	324	86
165°	223	216	210	208	261	63
175°	246	236	211	175	106	23
180°	203	203	203	203	203	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3084.2	3084.2	3084.2	3084.2	3084.2
2.5°	3107.1	3082.5	3056.3	3095.6	3094.0
5°	3102.2	3095.6	3051.4	3066.1	3077.6
7.5°	3079.3	3062.9	3036.6	3072.7	3069.4
10°	3048.1	3028.4	3002.2	3023.5	3038.3
12.5°	3013.7	2997.3	2979.3	3002.2	3012.1
15°	2969.5	2951.4	2940.0	2961.3	2974.4
17.5°	2912.1	2907.2	2908.8	2910.5	2931.8
20°	2838.4	2841.6	2846.5	2876.0	2882.6
22.5°	2763.0	2781.0	2767.9	2813.8	2810.5
25°	2684.3	2708.9	2704.0	2735.1	2749.9
27.5°	2613.8	2615.5	2645.0	2689.2	2684.3
30°	2520.4	2548.3	2545.0	2599.1	2599.1
32.5°	2425.4	2466.4	2479.5	2527.0	2543.4
35°	2346.7	2354.9	2376.2	2445.0	2484.4
37.5°	2218.9	2258.2	2292.6	2382.8	2397.5
40°	2110.7	2150.1	2212.3	2317.2	2309.0
42.5°	2017.3	2058.3	2104.2	2225.5	2254.9
45°	1904.3	1958.3	2017.3	2150.1	2163.2
47.5°	1812.5	1855.1	1932.1	2053.4	2069.8
50°	1683.0	1751.8	1835.4	1976.4	2000.9
52.5°	1568.3	1627.3	1733.8	1879.7	1935.4
55°	1466.7	1514.2	1653.5	1787.9	1840.3
57.5°	1342.2	1407.7	1553.6	1702.7	1750.2
60°	1232.4	1296.3	1437.2	1607.6	1645.3
62.5°	1116.0	1191.4	1343.8	1509.3	1551.9
65°	998.0	1073.4	1247.1	1414.3	1455.2
67.5°	870.2	963.6	1140.6	1314.3	1356.9
70°	750.6	852.2	1042.3	1216.0	1258.6
72.5°	642.4	752.2	945.6	1124.2	1170.1
75°	526.0	647.3	848.9	1024.2	1071.8
77.5°	413.0	544.1	748.9	925.9	981.6
80°	303.2	447.4	662.1	832.5	891.5
82.5°	213.0	360.5	581.8	748.9	803.0
85°	129.5	283.5	496.5	663.7	726.0
87.5°	57.4	219.6	429.4	594.9	650.6
90°	4.9	172.1	378.6	540.8	599.8
92.5°	9.8	175.3	376.9	534.2	593.2
95°	14.7	180.3	378.6	534.2	590.0
97.5°	21.3	186.8	381.8	534.2	588.3
100°	31.1	190.1	383.5	534.2	588.3
102.5°	41.0	195.0	381.8	526.0	581.8
105°	52.4	198.3	385.1	527.7	576.8
107.5°	63.9	201.6	385.1	519.5	575.2
110°	75.4	206.5	381.8	514.6	568.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	85.2	211.4	380.2	504.7	557.2
115°	95.0	214.7	376.9	501.5	550.6
117.5°	104.9	216.3	375.3	493.3	540.8
120°	113.1	219.6	372.0	483.4	535.9
122.5°	122.9	221.2	367.1	473.6	526.0
125°	136.0	221.2	365.4	465.4	508.0
127.5°	142.6	222.9	358.9	455.6	499.8
130°	149.1	218.0	355.6	444.1	486.7
132.5°	154.0	216.3	347.4	432.6	470.3
135°	157.3	213.0	339.2	421.2	455.6
137.5°	162.2	208.1	327.8	413.0	445.7
140°	165.5	204.8	311.4	396.6	429.4
142.5°	168.8	199.9	295.0	381.8	413.0
145°	170.4	196.7	278.6	370.4	396.6
147.5°	175.3	191.7	268.8	355.6	378.6
150°	173.7	188.5	254.0	337.6	360.5
152.5°	178.6	193.4	240.9	313.0	345.8
155°	186.8	196.7	227.8	286.8	324.5
157.5°	195.0	203.2	218.0	263.8	308.1
160°	206.5	206.5	206.5	245.8	295.0
162.5°	213.0	213.0	208.1	224.5	277.0
165°	222.9	216.3	209.8	208.1	260.6
167.5°	232.7	219.6	213.0	201.6	249.1
170°	234.3	224.5	211.4	190.1	240.9
172.5°	240.9	229.4	209.8	180.3	186.8
175°	245.8	236.0	211.4	175.3	106.5
177.5°	244.2	236.0	216.3	175.3	103.2
180°	203.2	203.2	203.2	203.2	203.2



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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	16.06	17.39	16.67	18.01	18.73	18.65	19.98	19.26	20.60	21.32
	3H	17.49	18.70	18.12	19.33	20.08	21.05	22.25	21.67	22.89	23.64
	4H	17.96	19.10	18.60	19.75	20.51	22.19	23.33	22.84	23.98	24.75
	6H	18.22	19.28	18.88	19.94	20.72	23.35	24.41	24.01	25.07	25.85
	8H	18.27	19.29	18.94	19.97	20.75	23.93	24.95	24.60	25.63	26.41
	12H	18.29	19.26	18.97	19.94	20.75	24.57	25.54	25.24	26.21	27.02
4H	2H	16.95	18.09	17.59	18.74	19.50	18.99	20.13	19.64	20.78	21.55
	3H	18.60	19.57	19.26	20.26	21.04	21.60	22.57	22.26	23.26	24.04
	4H	19.18	20.07	19.86	20.76	21.57	22.90	23.79	23.58	24.49	25.30
	6H	19.56	20.34	20.25	21.05	21.87	24.23	25.01	24.93	25.73	26.55
	8H	19.65	20.38	20.34	21.09	21.93	24.91	25.64	25.61	26.36	27.19
	12H	19.69	20.35	20.41	21.09	21.93	25.65	26.32	26.37	27.06	27.90
8H	4H	19.82	20.55	20.52	21.27	22.10	23.05	23.79	23.75	24.50	25.34
	6H	20.35	20.97	21.08	21.73	22.57	24.53	25.15	25.26	25.90	26.74
	8H	20.52	21.08	21.26	21.84	22.69	25.32	25.88	26.07	26.64	27.49
	12H	20.63	21.12	21.37	21.87	22.78	26.22	26.72	26.97	27.47	28.38
12H	4H	19.98	20.65	20.70	21.39	22.23	23.05	23.71	23.77	24.45	25.29
	6H	20.61	21.17	21.35	21.92	22.77	24.54	25.10	25.29	25.86	26.71
	8H	20.85	21.35	21.60	22.10	23.01	25.39	25.89	26.14	26.64	27.55