

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: P894593

Luminaire Tested: 8TMB-14HL-FLT-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2403-334-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-14HL-FLT-UNV-L930
Description: 14000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 90CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

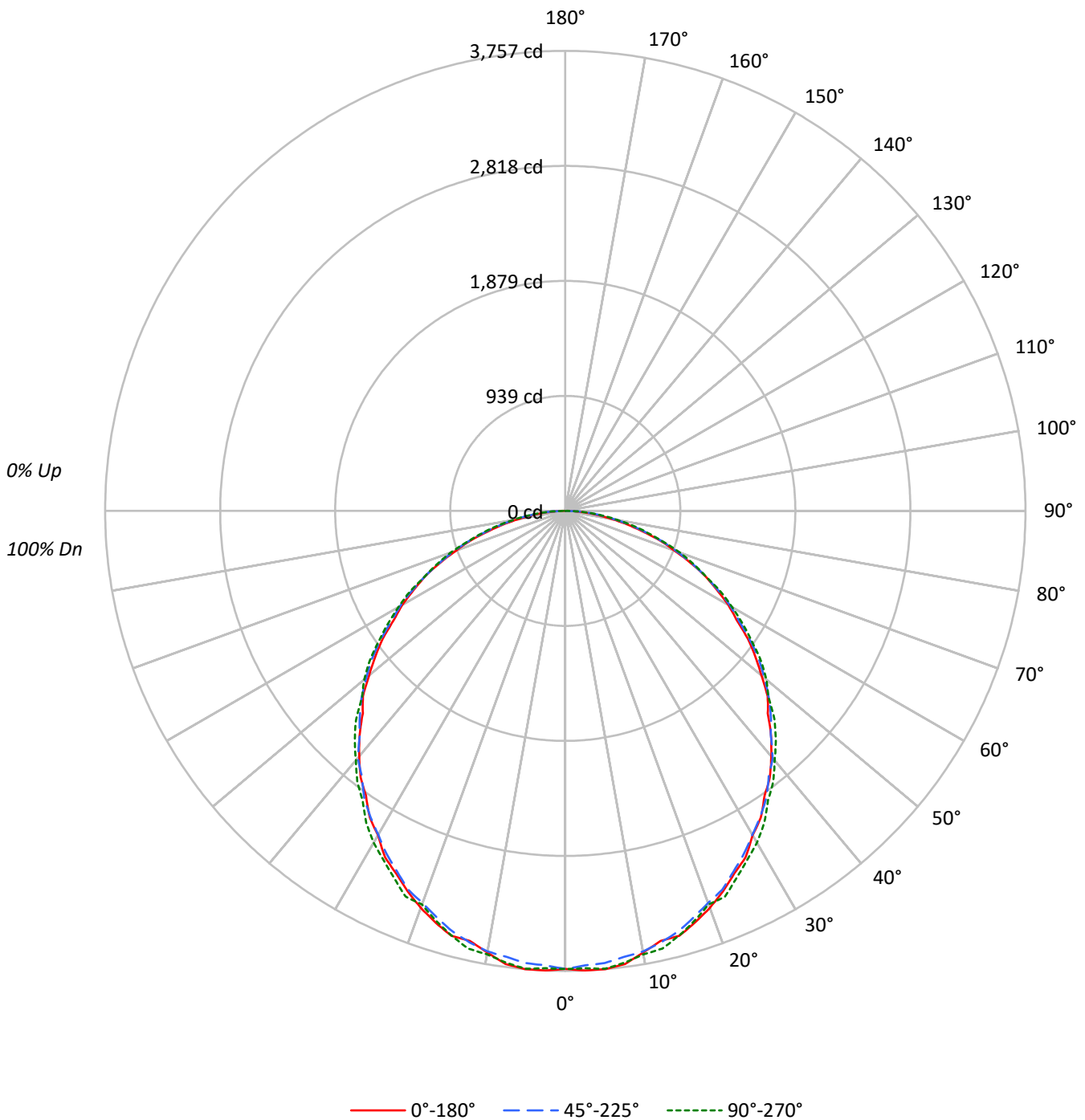
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10364.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.34
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 103.6
Input Voltage (V): 120
Input Current (Ain): 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	109	104	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	86	86	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	72	72	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	69	65	61	61	61	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	52	52	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	40	40	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	35	35	35	33
8	60	47	38	33	59	46	38	32	45	37	32	44	37	32	42	36	32	32	32	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	29	29	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13271	13271	13271
5°	13380	13201	13368
10°	13197	13162	13249
15°	13200	13063	13188
20°	13025	12867	12915
25°	12790	12720	12948
30°	12531	12511	12822
35°	12289	12395	12499
40°	12124	12198	12318
45°	11732	11910	12129
50°	11541	11711	11826
55°	11254	11394	11514
60°	10904	11065	11167
65°	10581	10621	10621
70°	9839	10074	10325
75°	9059	9414	9613
80°	7989	8682	8980
85°	7169	8024	8618

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12129 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.0	3.4
10°-20°	1009.0	9.7
20°-30°	1513.4	14.6
30°-40°	1797.4	17.3
40°-50°	1840.3	17.8
50°-60°	1648.8	15.9
60°-70°	1252.5	12.1
70°-80°	729.5	7.0
80°-90°	219.1	2.1
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°	2876.4	27.8
0°-40°	4673.8	45.1
0°-60°	8162.9	78.8
0°-90°	10364.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10364.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3740	3740	3740	3740	3740	
5°	3757	3742	3706	3729	3753	356
15°	3593	3618	3556	3571	3590	1009
25°	3267	3296	3249	3291	3307	1508
35°	2837	2900	2862	2873	2886	1783
45°	2338	2396	2374	2393	2417	1818
55°	1819	1847	1842	1863	1861	1621
65°	1260	1260	1265	1281	1265	1238
75°	661	672	687	708	701	704
85°	176	179	197	210	212	197
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3740.4	3740.4	3740.4	3740.4	3740.4
2.5°	3756.6	3738.8	3714.6	3722.6	3738.8
5°	3756.6	3742.0	3706.5	3729.1	3753.3
7.5°	3732.3	3751.7	3674.2	3674.2	3719.4
10°	3662.9	3700.0	3653.2	3648.3	3677.4
12.5°	3596.6	3664.5	3609.5	3625.7	3661.2
15°	3593.4	3617.6	3556.2	3570.8	3590.1
17.5°	3523.9	3548.1	3481.9	3509.4	3509.4
20°	3449.6	3454.4	3407.6	3467.4	3420.5
22.5°	3363.9	3414.0	3349.4	3368.8	3409.2
25°	3267.0	3296.1	3249.2	3291.2	3307.4
27.5°	3187.8	3223.4	3158.7	3208.8	3213.7
30°	3058.6	3097.3	3053.7	3086.0	3129.7
32.5°	2971.3	2984.2	2961.6	3010.1	3023.0
35°	2837.2	2900.2	2861.5	2872.8	2885.7
37.5°	2743.5	2762.9	2729.0	2767.7	2788.7
40°	2617.5	2646.6	2633.6	2640.1	2659.5
42.5°	2486.6	2517.3	2483.4	2530.2	2544.8
45°	2338.0	2396.1	2373.5	2392.9	2417.1
47.5°	2241.0	2260.4	2253.9	2265.3	2249.1
50°	2090.8	2110.1	2121.5	2136.0	2142.5
52.5°	1956.6	1971.2	1992.2	2000.3	2014.8
55°	1819.3	1846.8	1841.9	1862.9	1861.3
57.5°	1659.4	1699.7	1686.8	1717.5	1717.5
60°	1536.6	1543.0	1559.2	1573.7	1573.7
62.5°	1394.4	1402.5	1410.5	1423.5	1433.2
65°	1260.3	1260.3	1265.1	1281.3	1265.1
67.5°	1105.2	1098.7	1114.9	1134.2	1132.6
70°	948.4	956.5	971.1	995.3	995.3
72.5°	814.3	814.3	830.5	843.4	841.8
75°	660.8	672.1	686.7	707.7	701.2
77.5°	523.5	531.6	555.8	575.2	576.8
80°	391.0	399.1	424.9	444.3	439.5
82.5°	273.1	284.4	308.6	323.1	321.5
85°	176.1	179.3	197.1	210.0	211.7
87.5°	80.8	87.2	100.2	105.0	105.0
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	20.51	22.15	20.88	22.46	22.78	20.62	22.26	20.98	22.57	22.88
	3H	22.29	23.78	22.67	24.10	24.46	22.45	23.94	22.83	24.26	24.62
	4H	22.96	24.35	23.35	24.70	25.08	23.15	24.55	23.55	24.90	25.27
	6H	23.43	24.73	23.84	25.09	25.48	23.70	25.00	24.11	25.36	25.75
	8H	23.58	24.82	24.00	25.21	25.61	23.89	25.13	24.32	25.52	25.92
	12H	23.69	24.87	24.12	25.25	25.68	24.04	25.22	24.46	25.60	26.03
4H	2H	21.16	22.55	21.56	22.90	23.28	21.24	22.64	21.64	22.98	23.36
	3H	23.16	24.33	23.57	24.73	25.13	23.30	24.48	23.71	24.87	25.27
	4H	23.95	25.01	24.38	25.43	25.86	24.14	25.20	24.57	25.62	26.05
	6H	24.55	25.48	25.00	25.92	26.38	24.83	25.76	25.28	26.20	26.66
	8H	24.75	25.62	25.21	26.06	26.53	25.08	25.95	25.54	26.39	26.85
	12H	24.90	25.68	25.38	26.16	26.63	25.27	26.06	25.75	26.53	27.00
8H	4H	24.29	25.16	24.75	25.60	26.06	24.45	25.33	24.91	25.77	26.23
	6H	25.01	25.74	25.50	26.22	26.70	25.28	26.00	25.77	26.49	26.97
	8H	25.28	25.93	25.79	26.44	26.92	25.61	26.26	26.12	26.77	27.25
	12H	25.51	26.09	26.02	26.58	27.14	25.90	26.48	26.41	26.97	27.53
12H	4H	24.33	25.11	24.81	25.59	26.06	24.49	25.27	24.97	25.75	26.22
	6H	25.08	25.74	25.59	26.24	26.73	25.34	25.99	25.84	26.49	26.98
	8H	25.42	25.99	25.92	26.48	27.04	25.73	26.31	26.24	26.80	27.36