

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: P894617

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

Issue Date: 11/11/2024

**Test Information**

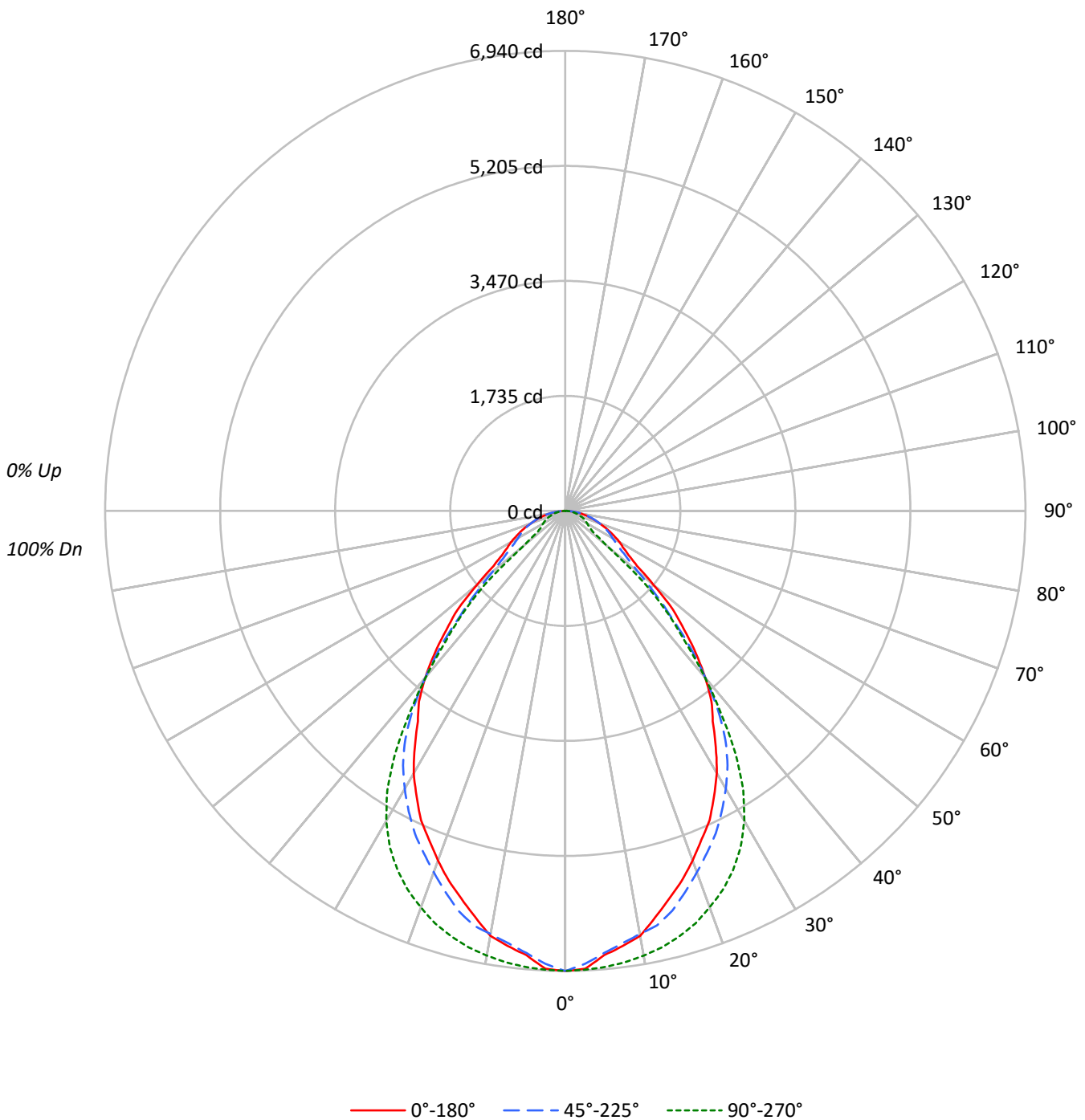
Test Method: LM-79-2019  
Report Number: P894617  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-14HL-LVRA-UNV-L930  
Description: 14000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 3000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11264.0 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12  
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 (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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	80	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	71	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	63	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	52	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	47	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	37	37	35

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

	0°	45°	90°
0°	24625	24625	24625
5°	23961	23853	24598
10°	23452	23349	24541
15°	22242	22925	24404
20°	21187	21904	24031
25°	20154	21016	23418
30°	18725	19839	22110
35°	16790	18231	19393
40°	15212	15245	15162
45°	12719	11265	10986
50°	9607	7929	4493
55°	7226	6341	2833
60°	6715	5839	2729
65°	6247	5827	2734
70°	5715	5715	2691
75°	5419	5566	2599
80°	5008	5264	2669
85°	4368	4588	2915

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 13015 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	641.1	5.7
10°-20°	1766.5	15.7
20°-30°	2504.9	22.2
30°-40°	2580.6	22.9
40°-50°	1802.5	16.0
50°-60°	864.9	7.7
60°-70°	606.8	5.4
70°-80°	379.4	3.4
80°-90°	117.3	1.0
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°	4912.5	43.6
0°-40°	7493.1	66.5
0°-60°	10160.5	90.2
0°-90°	11264.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11264.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6940	6940	6940	6940	6940	
5°	6728	6719	6697	6872	6906	637
15°	6055	6100	6241	6420	6644	1705
25°	5148	5200	5368	5731	5982	2354
35°	3876	3982	4209	4297	4477	2443
45°	2535	2594	2245	2130	2189	1953
55°	1168	1111	1025	656	458	1095
65°	744	696	694	528	326	737
75°	395	390	406	351	190	416
85°	107	107	113	111	72	120
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6940.4	6940.4	6940.4	6940.4	6940.4
2.5°	6913.6	6892.1	6840.2	6935.0	6927.9
5°	6727.5	6718.6	6697.1	6872.4	6906.4
7.5°	6622.0	6604.1	6579.1	6772.3	6867.1
10°	6509.3	6530.8	6480.7	6657.8	6811.6
12.5°	6276.8	6334.0	6402.0	6539.7	6743.6
15°	6055.0	6099.7	6241.0	6419.9	6643.5
17.5°	5847.5	5899.3	6021.0	6289.3	6527.2
20°	5611.3	5682.9	5801.0	6144.4	6364.4
22.5°	5368.1	5434.3	5582.7	5951.2	6196.3
25°	5148.1	5199.9	5368.1	5731.2	5981.6
27.5°	4856.5	4953.1	5112.3	5462.9	5725.8
30°	4570.3	4652.6	4842.2	5137.3	5396.7
32.5°	4225.1	4344.9	4554.2	4779.6	4996.0
35°	3876.2	3981.8	4209.0	4296.6	4477.3
37.5°	3622.2	3650.9	3779.7	3768.9	3870.9
40°	3284.2	3341.4	3291.3	3157.2	3273.4
42.5°	2919.3	2987.2	2785.1	2629.5	2670.6
45°	2534.7	2593.7	2244.9	2130.4	2189.4
47.5°	2202.0	2196.6	1810.2	1733.3	1651.0
50°	1740.5	1797.7	1436.4	1293.3	813.9
52.5°	1359.5	1380.9	1184.2	826.4	534.8
55°	1168.1	1110.8	1025.0	656.5	457.9
57.5°	1037.5	965.9	908.7	610.0	418.6
60°	946.3	865.8	822.8	579.6	384.6
62.5°	842.5	779.9	763.8	552.7	354.2
65°	744.1	695.8	694.0	527.7	325.6
67.5°	645.7	618.9	626.1	497.3	293.4
70°	550.9	545.6	550.9	457.9	259.4
72.5°	470.4	465.1	479.4	407.8	221.8
75°	395.3	390.0	406.0	350.6	189.6
77.5°	314.8	318.4	329.1	291.6	159.2
80°	245.1	245.1	257.6	229.0	130.6
82.5°	175.3	177.1	184.2	168.1	102.0
85°	107.3	107.3	112.7	110.9	71.6
87.5°	35.8	41.1	48.3	51.9	35.8
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	16.78	18.13	17.14	18.44	18.76	13.11	14.46	13.48	14.78	15.09
	3H	18.52	19.72	18.90	20.05	20.42	15.09	16.29	15.47	16.62	16.99
	4H	19.19	20.32	19.59	20.67	21.05	15.79	16.92	16.19	17.27	17.65
	6H	19.69	20.73	20.11	21.10	21.50	16.31	17.35	16.73	17.72	18.12
	8H	19.87	20.85	20.30	21.24	21.65	16.50	17.48	16.93	17.88	18.28
	12H	19.98	20.92	20.41	21.30	21.73	16.64	17.58	17.07	17.96	18.39
4H	2H	17.31	18.44	17.71	18.79	19.17	14.73	15.86	15.13	16.21	16.59
	3H	19.29	20.22	19.70	20.62	21.02	16.91	17.84	17.32	18.24	18.65
	4H	20.09	20.92	20.52	21.34	21.78	17.79	18.63	18.22	19.04	19.49
	6H	20.73	21.45	21.19	21.90	22.37	18.43	19.16	18.89	19.60	20.07
	8H	20.95	21.63	21.42	22.07	22.54	18.64	19.32	19.11	19.76	20.23
	12H	21.10	21.70	21.59	22.19	22.66	18.80	19.40	19.29	19.88	20.36
8H	4H	20.37	21.05	20.84	21.49	21.96	18.44	19.12	18.91	19.56	20.03
	6H	21.15	21.71	21.66	22.21	22.69	19.30	19.86	19.80	20.35	20.83
	8H	21.46	21.96	21.98	22.47	22.96	19.63	20.13	20.15	20.64	21.13
	12H	21.69	22.13	22.21	22.63	23.20	19.89	20.33	20.41	20.83	21.40
12H	4H	20.39	20.99	20.87	21.47	21.94	18.51	19.11	19.00	19.59	20.07
	6H	21.21	21.71	21.73	22.22	22.71	19.44	19.94	19.96	20.45	20.94
	8H	21.57	22.01	22.09	22.51	23.08	19.85	20.29	20.36	20.79	21.36