

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: P894605

Luminaire Tested: 8TMB-14HL-LVR-UNV-L830

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P894605  
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-14HL-LVR-UNV-L830  
Description: 14000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 3000K CCT  
Light Source: -  
Ballast/Driver: -

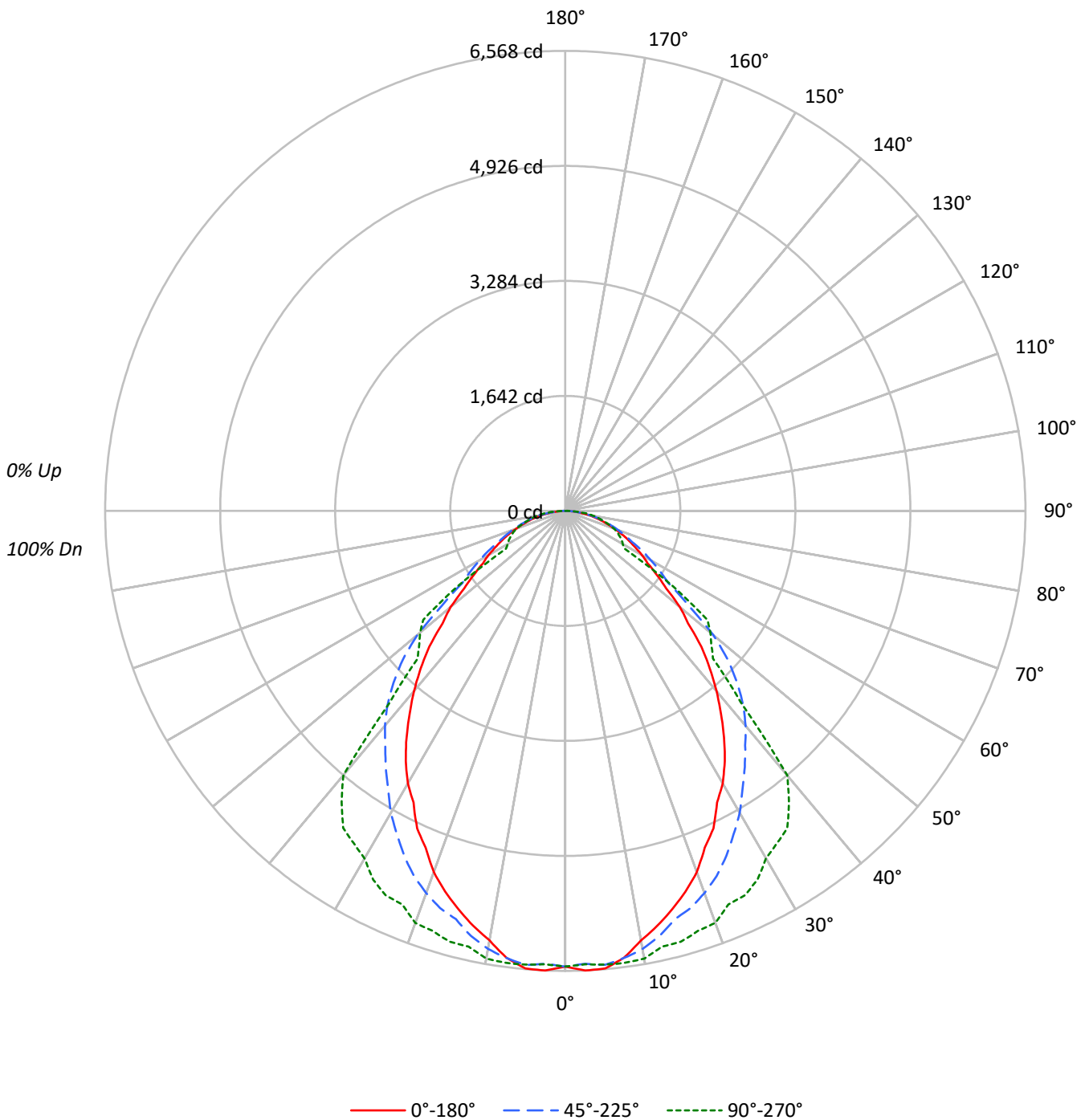
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13617.0 lumens  
Efficiency: N/A  
Efficacy: 131.4 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): 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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	67	67	67	65
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	57	53	62	56	52	52	52	52	50
6	74	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

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

	0°	45°	90°
0°	23082	23082	23082
5°	23360	23177	23163
10°	22440	22880	23383
15°	21636	22169	23397
20°	20725	21923	23632
25°	19581	21279	23717
30°	18402	20391	23474
35°	17113	19340	23932
40°	15548	18539	22822
45°	13776	17400	14965
50°	11790	15207	14933
55°	9880	11098	11617
60°	8989	10019	6724
65°	8421	8870	7186
70°	7749	8404	7690
75°	7281	7884	7831
80°	6792	7456	8394
85°	5834	6221	8944

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 17400 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	618.2	4.5
10°-20°	1729.6	12.7
20°-30°	2520.8	18.5
30°-40°	2883.8	21.2
40°-50°	2466.9	18.1
50°-60°	1626.8	11.9
60°-70°	983.5	7.2
70°-80°	601.7	4.4
80°-90°	185.8	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°	4868.5	35.8
0°-40°	7752.3	56.9
0°-60°	11846.0	87.0
0°-90°	13617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13617.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6505	6505	6505	6505	6505	
5°	6559	6553	6507	6494	6503	615
15°	5890	5959	6035	6421	6370	1656
25°	5002	5078	5435	5900	6058	2288
35°	3951	4150	4465	5166	5525	2461
45°	2745	2958	3468	3240	2982	2102
55°	1597	1687	1794	2126	1878	1453
65°	1003	1028	1056	944	856	991
75°	531	544	575	602	571	561
85°	143	141	153	182	220	163
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6505.3	6505.3	6505.3	6505.3	6505.3
2.5°	6568.3	6549.2	6470.9	6545.4	6478.5
5°	6558.8	6553.0	6507.2	6493.8	6503.4
7.5°	6432.7	6446.1	6438.4	6581.7	6509.1
10°	6228.3	6255.0	6350.5	6551.1	6490.0
12.5°	6067.8	6088.8	6216.8	6514.8	6371.5
15°	5890.1	5958.9	6035.3	6421.2	6369.6
17.5°	5699.0	5764.0	5945.5	6295.1	6289.4
20°	5488.9	5609.3	5806.0	6130.8	6258.8
22.5°	5204.2	5366.6	5643.6	6056.3	6081.1
25°	5001.7	5078.1	5435.4	5899.6	6058.2
27.5°	4694.1	4839.3	5204.2	5674.2	5935.9
30°	4491.6	4612.0	4976.9	5542.4	5729.6
32.5°	4237.5	4380.8	4707.5	5399.1	5624.5
35°	3950.9	4149.6	4464.9	5166.0	5525.2
37.5°	3649.1	3845.9	4218.4	4973.1	5244.3
40°	3356.8	3524.9	4002.5	4741.9	4927.2
42.5°	3056.8	3238.3	3756.1	4285.3	3706.4
45°	2745.4	2957.5	3467.6	3240.2	2982.3
47.5°	2376.7	2636.5	3148.5	2604.0	2825.6
50°	2135.9	2277.3	2755.0	2455.0	2705.3
52.5°	1816.9	2007.9	2212.4	2292.6	2556.3
55°	1597.2	1687.0	1794.0	2126.4	1878.0
57.5°	1394.7	1474.9	1599.1	1499.7	1001.1
60°	1266.7	1303.0	1411.9	1071.8	947.6
62.5°	1121.5	1157.8	1238.0	1001.1	909.4
65°	1003.0	1027.9	1056.5	943.8	855.9
67.5°	876.9	890.3	920.9	871.2	804.3
70°	747.0	766.1	810.1	796.7	741.3
72.5°	632.4	649.6	687.8	706.9	655.3
75°	531.1	544.5	575.1	601.8	571.2
77.5°	422.2	435.6	475.7	504.4	491.0
80°	332.4	334.3	364.9	393.6	410.8
82.5°	233.1	236.9	259.8	290.4	324.8
85°	143.3	141.4	152.8	181.5	219.7
87.5°	55.4	53.5	63.0	76.4	112.7
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	18.73	20.21	19.10	20.52	20.84	18.41	19.89	18.77	20.20	20.52
	3H	20.29	21.62	20.67	21.94	22.31	20.03	21.35	20.41	21.68	22.04
	4H	20.89	22.13	21.29	22.48	22.86	20.78	22.02	21.18	22.37	22.74
	6H	21.35	22.49	21.76	22.86	23.25	21.44	22.59	21.86	22.96	23.35
	8H	21.50	22.59	21.93	22.98	23.38	21.72	22.81	22.15	23.20	23.60
	12H	21.60	22.64	22.03	23.03	23.46	21.94	22.99	22.37	23.37	23.80
4H	2H	19.32	20.57	19.73	20.91	21.29	19.07	20.31	19.47	20.66	21.04
	3H	21.11	22.14	21.52	22.54	22.94	20.96	21.98	21.37	22.38	22.79
	4H	21.84	22.77	22.27	23.18	23.62	21.85	22.78	22.28	23.19	23.63
	6H	22.42	23.23	22.88	23.67	24.13	22.66	23.46	23.12	23.91	24.37
	8H	22.62	23.37	23.09	23.82	24.29	22.99	23.74	23.45	24.18	24.65
	12H	22.76	23.43	23.24	23.91	24.38	23.26	23.93	23.74	24.41	24.88
8H	4H	22.16	22.92	22.63	23.36	23.83	22.17	22.93	22.64	23.37	23.84
	6H	22.87	23.50	23.37	23.99	24.47	23.12	23.75	23.62	24.24	24.72
	8H	23.14	23.70	23.66	24.21	24.70	23.54	24.10	24.05	24.61	25.10
	12H	23.35	23.85	23.86	24.34	24.91	23.91	24.40	24.42	24.90	25.46
12H	4H	22.20	22.87	22.68	23.35	23.83	22.20	22.87	22.68	23.35	23.82
	6H	22.94	23.50	23.46	24.02	24.50	23.17	23.74	23.69	24.25	24.74
	8H	23.27	23.77	23.78	24.26	24.83	23.65	24.15	24.16	24.64	25.21