

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: P895117

Luminaire Tested: 8TMB-6SL-LVR-UNV-L830

Issue Date: 11/11/2024

**Test Information**

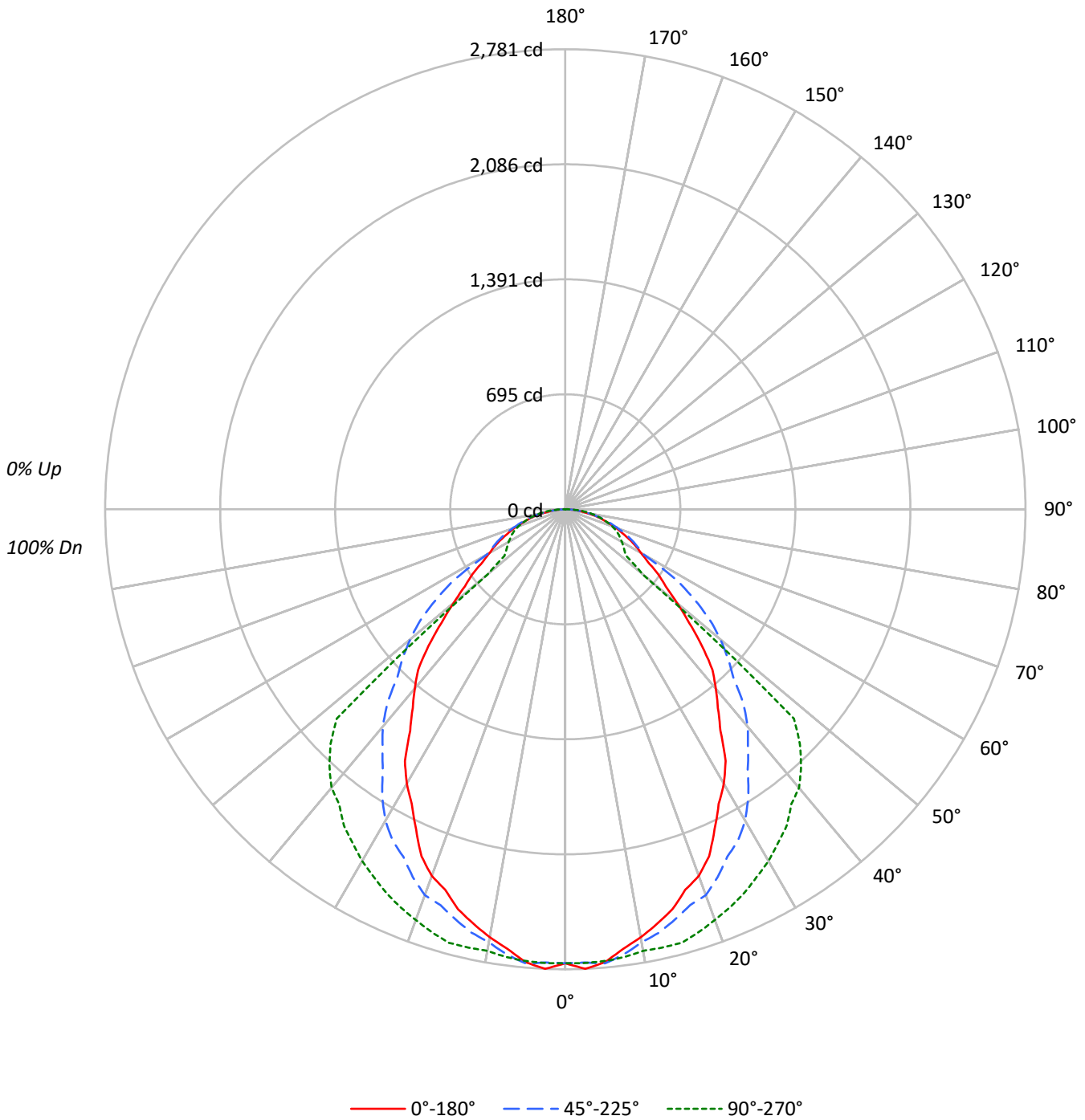
Test Method: LM-79-2019  
Report Number: P895117  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-6SL-LVR-UNV-L830  
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 3000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5856.0 lumens  
Efficiency: N/A  
Efficacy: 138.8 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27  
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 42.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 5.51  
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	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	52	52	52	50
6	75	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	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

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

	0°	45°	90°
0°	9736	9736	9736
5°	9789	9814	9764
10°	9468	9579	9766
15°	9195	9426	9967
20°	8906	9372	9975
25°	8356	9070	10019
30°	7849	8906	10060
35°	7078	8329	10107
40°	6556	7945	10178
45°	5865	7201	10063
50°	4866	6746	3381
55°	4239	5921	2705
60°	3750	3859	2804
65°	3566	3754	2977
70°	3344	3548	3140
75°	3112	3344	3228
80°	2834	3151	3380
85°	2512	2683	3652

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 10063 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.3	4.4
10°-20°	732.2	12.5
20°-30°	1077.1	18.4
30°-40°	1231.8	21.0
40°-50°	1166.4	19.9
50°-60°	642.6	11.0
60°-70°	412.6	7.0
70°-80°	254.6	4.3
80°-90°	78.4	1.3
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°	2069.6	35.3
0°-40°	3301.4	56.4
0°-60°	5110.4	87.3
0°-90°	5856.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5856.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2744	2744	2744	2744	2744	
5°	2748	2771	2755	2755	2741	258
15°	2503	2534	2566	2701	2713	703
25°	2134	2230	2317	2468	2559	983
35°	1634	1774	1923	2202	2334	1033
45°	1169	1280	1435	1842	2006	894
55°	685	719	957	493	437	613
65°	425	439	447	398	355	420
75°	227	231	244	256	236	242
85°	62	62	66	76	90	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2744.1	2744.1	2744.1	2744.1	2744.1
2.5°	2780.6	2787.6	2742.7	2741.3	2745.5
5°	2748.3	2770.8	2755.3	2755.3	2741.3
7.5°	2679.7	2717.5	2713.3	2745.5	2730.1
10°	2627.8	2658.6	2658.6	2742.7	2710.5
12.5°	2566.1	2601.2	2620.8	2709.1	2713.3
15°	2503.1	2533.9	2566.1	2700.7	2713.3
17.5°	2412.0	2468.0	2508.7	2640.4	2681.1
20°	2358.7	2392.4	2482.1	2588.6	2641.8
22.5°	2270.4	2319.5	2406.4	2525.5	2604.0
25°	2134.5	2229.8	2316.7	2468.0	2559.1
27.5°	2008.3	2079.8	2259.2	2419.0	2505.9
30°	1915.8	1971.9	2173.7	2347.5	2455.4
32.5°	1803.7	1894.8	2058.8	2277.4	2392.4
35°	1634.1	1774.3	1922.9	2201.8	2333.5
37.5°	1515.0	1611.7	1813.5	2123.3	2245.2
40°	1415.5	1503.8	1715.4	2025.2	2197.5
42.5°	1316.0	1387.5	1592.1	1952.3	2109.3
45°	1168.8	1279.6	1435.1	1841.6	2005.5
47.5°	1014.7	1132.4	1332.8	1747.7	1873.8
50°	881.5	975.4	1222.1	1561.3	612.5
52.5°	765.2	852.1	1104.4	564.8	462.5
55°	685.3	719.0	957.2	493.3	437.3
57.5°	590.0	644.7	803.1	469.5	414.8
60°	528.4	552.2	543.8	445.7	395.2
62.5°	479.3	496.1	493.3	421.9	372.8
65°	424.7	438.7	447.1	398.0	354.6
67.5°	370.0	382.6	395.2	368.6	329.4
70°	322.3	330.8	342.0	333.6	302.7
72.5°	273.3	283.1	290.1	297.1	267.7
75°	227.0	231.2	243.9	256.5	235.5
77.5°	185.0	189.2	197.6	211.6	200.4
80°	138.7	143.0	154.2	165.4	165.4
82.5°	98.1	100.9	107.9	123.3	130.3
85°	61.7	61.7	65.9	75.7	89.7
87.5°	23.8	23.8	28.0	33.6	44.8
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	15.86	17.34	16.22	17.65	17.97	13.66	15.14	14.02	15.46	15.77
	3H	17.38	18.71	17.76	19.04	19.40	15.99	17.32	16.37	17.65	18.01
	4H	17.98	19.22	18.38	19.57	19.95	16.94	18.18	17.34	18.53	18.91
	6H	18.43	19.58	18.85	19.95	20.34	17.72	18.87	18.14	19.24	19.63
	8H	18.58	19.67	19.00	20.06	20.46	18.04	19.13	18.46	19.52	19.92
	12H	18.67	19.72	19.10	20.10	20.53	18.28	19.33	18.72	19.71	20.14
4H	2H	16.41	17.65	16.81	18.00	18.38	14.76	16.01	15.16	16.36	16.74
	3H	18.18	19.21	18.59	19.61	20.01	17.21	18.24	17.62	18.64	19.04
	4H	18.90	19.83	19.33	20.24	20.68	18.28	19.20	18.71	19.62	20.06
	6H	19.49	20.29	19.94	20.73	21.19	19.16	19.97	19.62	20.41	20.87
	8H	19.67	20.43	20.14	20.87	21.34	19.51	20.27	19.98	20.71	21.18
	12H	19.81	20.48	20.29	20.96	21.44	19.80	20.48	20.29	20.96	21.43
8H	4H	19.21	19.96	19.67	20.40	20.87	18.66	19.42	19.13	19.86	20.33
	6H	19.92	20.54	20.42	21.03	21.51	19.70	20.32	20.20	20.81	21.29
	8H	20.18	20.74	20.69	21.25	21.74	20.14	20.71	20.66	21.22	21.70
	12H	20.39	20.89	20.90	21.38	21.95	20.53	21.03	21.04	21.52	22.08
12H	4H	19.24	19.92	19.73	20.40	20.87	18.70	19.37	19.18	19.85	20.32
	6H	19.98	20.55	20.50	21.06	21.54	19.76	20.32	20.28	20.84	21.32
	8H	20.30	20.80	20.81	21.29	21.86	20.27	20.77	20.78	21.26	21.83