

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: P895245

Luminaire Tested: 8TMB-8SL-LVRF-UNV-L830

Issue Date: 11/11/2024

**Test Information**

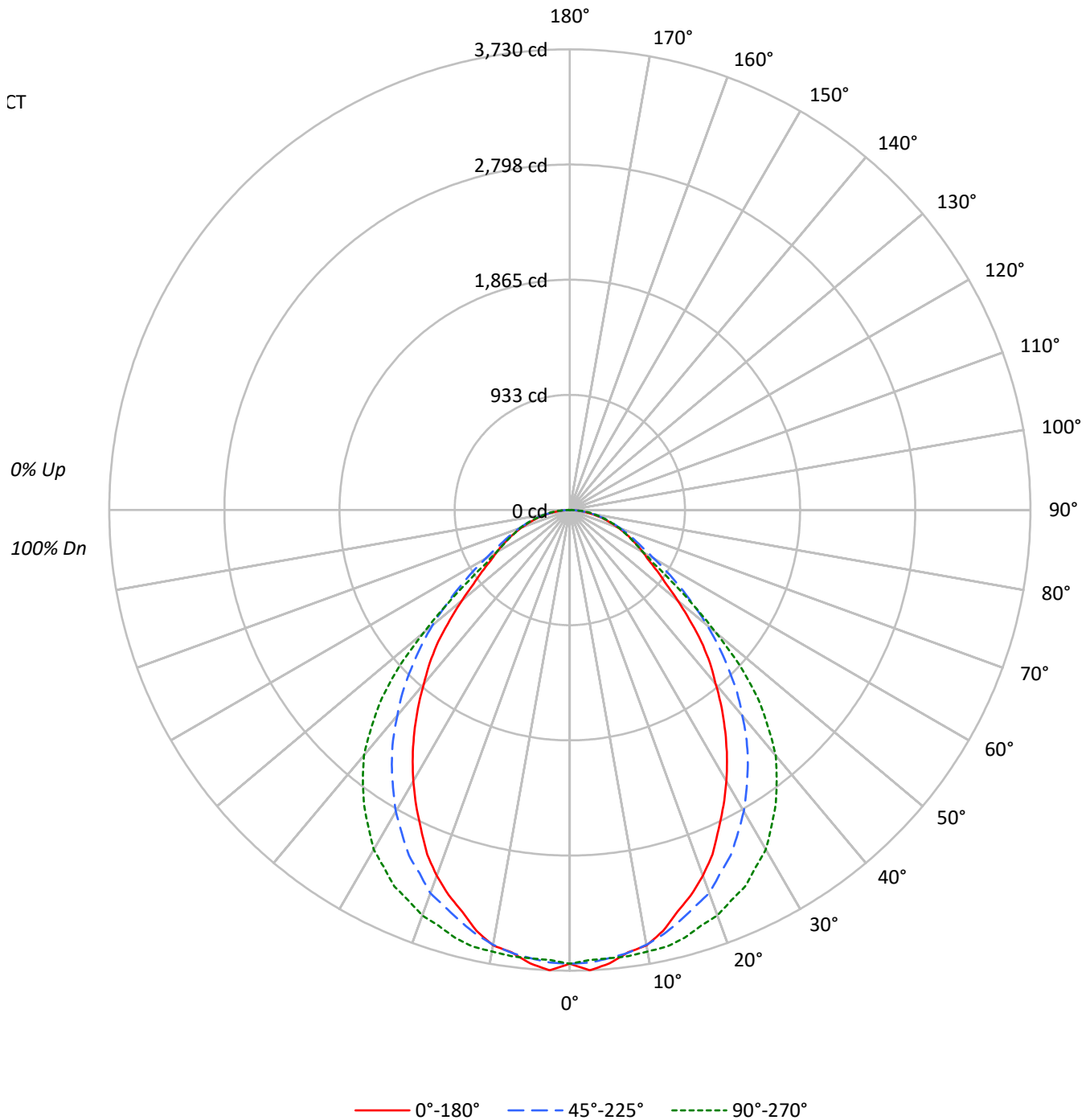
Test Method: LM-79-2019  
Report Number: P895245  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-8SL-LVRF-UNV-L830  
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 3000K C  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7634.0 lumens  
Efficiency: N/A  
Efficacy: 128.1 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23  
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 59.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 3.8  
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75	75	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	65	65	65
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57	57	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50	50	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	45	45	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	40
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	36	36	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33	33	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	30

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

	0°	45°	90°
0°	13033	13033	13033
5°	13123	12974	12974
10°	12896	12876	13076
15°	12363	12650	13170
20°	11893	12463	13191
25°	11157	12077	13161
30°	10385	11543	13006
35°	9506	10888	12592
40°	8511	10068	12014
45°	7553	9115	10802
50°	6284	8024	8519
55°	5353	6759	6192
60°	4852	5585	4893
65°	4571	4891	4555
70°	4300	4538	4439
75°	4006	4321	4242
80°	3668	3980	4099
85°	3188	3501	4588

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 10802 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	347.8	4.6
10°-20°	978.6	12.8
20°-30°	1421.1	18.6
30°-40°	1582.4	20.7
40°-50°	1398.0	18.3
50°-60°	917.4	12.0
60°-70°	561.7	7.4
70°-80°	326.9	4.3
80°-90°	100.1	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°	2747.4	36.0
0°-40°	4329.8	56.7
0°-60°	6645.2	87.0
0°-90°	7634.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7634.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3673	3673	3673	3673	3673	
5°	3685	3686	3643	3679	3643	347
15°	3366	3404	3444	3580	3585	950
25°	2850	2919	3085	3282	3362	1311
35°	2195	2313	2514	2779	2907	1369
45°	1505	1597	1816	2061	2153	1152
55°	865	926	1093	1083	1001	785
65°	544	554	583	565	542	541
75°	292	296	315	321	309	310
85°	78	82	86	97	113	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3673.1	3673.1	3673.1	3673.1	3673.1
2.5°	3730.4	3684.6	3667.4	3684.6	3646.4
5°	3684.6	3686.5	3642.6	3678.9	3642.6
7.5°	3612.0	3636.8	3615.8	3671.2	3642.6
10°	3579.5	3581.4	3573.8	3631.1	3629.2
12.5°	3489.8	3495.5	3516.5	3602.5	3621.6
15°	3365.6	3403.8	3443.9	3579.5	3585.3
17.5°	3268.2	3314.0	3367.5	3512.7	3529.9
20°	3149.8	3168.9	3300.7	3428.6	3493.6
22.5°	3018.0	3054.3	3182.2	3354.1	3419.1
25°	2849.9	2918.6	3084.8	3281.6	3361.8
27.5°	2695.2	2775.4	2947.3	3167.0	3260.5
30°	2534.7	2626.4	2817.4	3033.2	3174.6
32.5°	2368.5	2483.1	2664.6	2912.9	3037.1
35°	2194.7	2313.1	2513.7	2779.2	2907.2
37.5°	2020.9	2135.5	2353.2	2637.9	2752.5
40°	1837.5	1950.2	2173.7	2462.1	2593.9
42.5°	1679.0	1776.4	2005.6	2252.0	2374.3
45°	1505.2	1596.8	1816.5	2061.0	2152.7
47.5°	1314.2	1421.1	1635.0	1835.6	1871.9
50°	1138.4	1249.2	1453.6	1570.1	1543.4
52.5°	983.7	1077.3	1264.5	1314.2	1251.1
55°	865.3	926.4	1092.6	1083.0	1000.9
57.5°	756.4	794.6	936.0	882.5	804.2
60°	683.8	701.0	787.0	737.3	689.5
62.5°	615.1	622.7	668.5	641.8	605.5
65°	544.4	553.9	582.6	565.4	542.5
67.5°	479.4	483.3	510.0	506.2	477.5
70°	414.5	420.2	437.4	445.1	427.9
72.5°	351.5	357.2	374.4	382.0	366.7
75°	292.2	296.1	315.2	320.9	309.4
77.5°	234.9	242.6	254.0	263.6	250.2
80°	179.5	183.4	194.8	206.3	200.6
82.5°	126.1	131.8	139.4	154.7	158.5
85°	78.3	82.1	86.0	97.4	112.7
87.5°	30.6	32.5	38.2	42.0	55.4
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	16.45	17.93	16.81	18.24	18.56	17.10	18.58	17.47	18.90	19.21
	3H	18.05	19.38	18.43	19.70	20.07	18.54	19.86	18.92	20.19	20.55
	4H	18.67	19.91	19.07	20.26	20.64	19.14	20.39	19.54	20.73	21.11
	6H	19.14	20.29	19.55	20.65	21.04	19.63	20.78	20.04	21.14	21.54
	8H	19.29	20.38	19.72	20.77	21.17	19.83	20.92	20.25	21.31	21.71
	12H	19.39	20.43	19.82	20.82	21.25	19.99	21.04	20.42	21.42	21.85
4H	2H	17.07	18.31	17.47	18.66	19.04	17.60	18.84	18.00	19.19	19.57
	3H	18.89	19.92	19.30	20.32	20.72	19.29	20.32	19.70	20.72	21.12
	4H	19.63	20.56	20.06	20.97	21.41	20.05	20.97	20.48	21.39	21.83
	6H	20.23	21.03	20.69	21.48	21.94	20.68	21.49	21.14	21.93	22.39
	8H	20.43	21.18	20.89	21.62	22.09	20.94	21.69	21.40	22.13	22.60
	12H	20.57	21.24	21.05	21.72	22.19	21.16	21.83	21.64	22.31	22.78
8H	4H	19.95	20.70	20.41	21.15	21.61	20.32	21.07	20.78	21.51	21.98
	6H	20.67	21.30	21.17	21.79	22.27	21.09	21.71	21.59	22.21	22.68
	8H	20.95	21.51	21.46	22.02	22.51	21.44	22.00	21.95	22.51	23.00
	12H	21.16	21.66	21.67	22.15	22.72	21.75	22.25	22.26	22.74	23.31
12H	4H	19.98	20.66	20.47	21.14	21.61	20.34	21.01	20.82	21.49	21.96
	6H	20.74	21.30	21.25	21.81	22.30	21.14	21.70	21.65	22.21	22.70
	8H	21.07	21.57	21.58	22.06	22.63	21.54	22.04	22.05	22.53	23.10