

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: P895141

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

Issue Date: 11/11/2024

**Test Information**

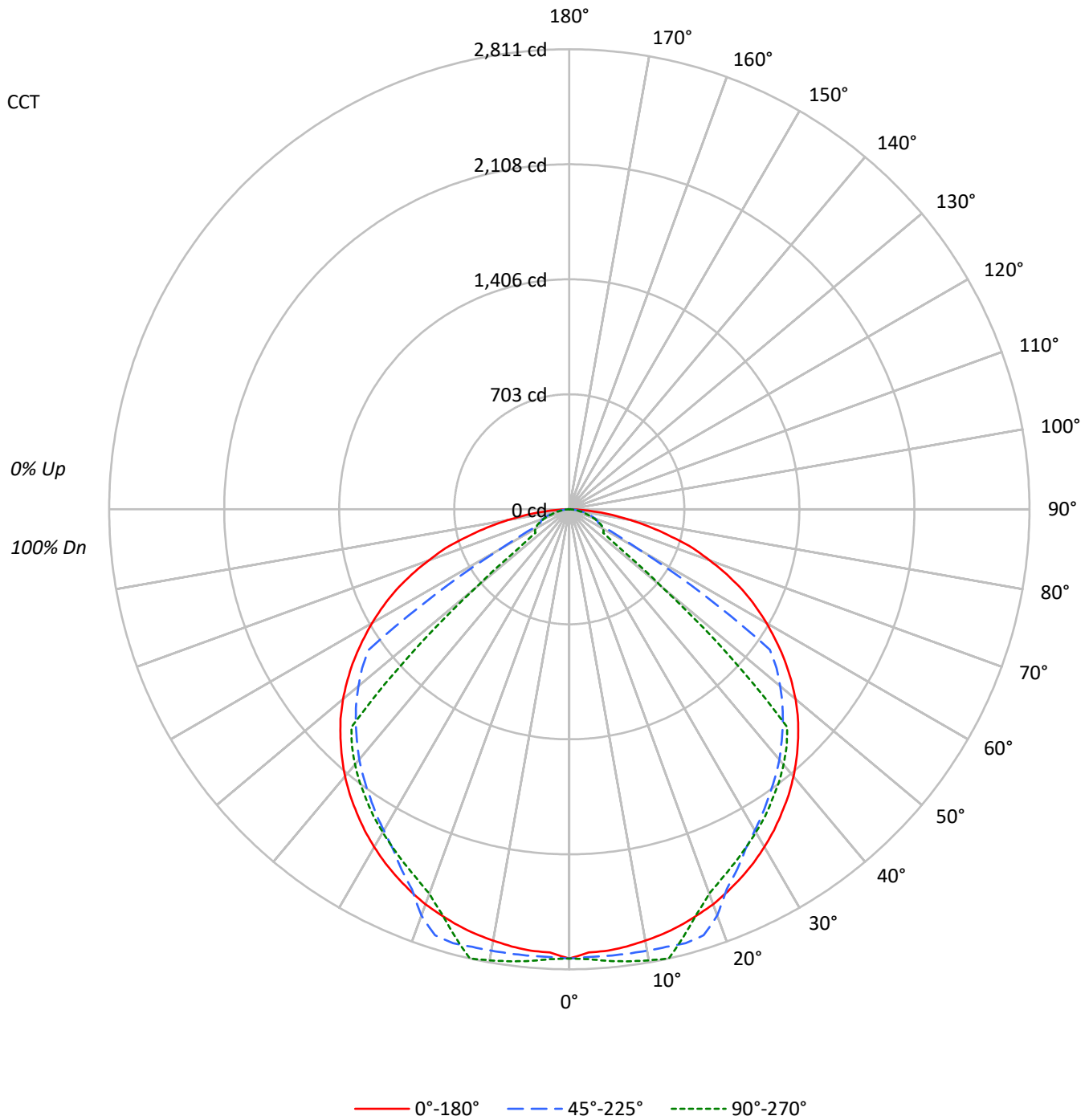
Test Method: LM-79-2019  
Report Number: P895141  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-6SL-RFLW-UNV-L830  
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 3000K  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6695.0 lumens  
Efficiency: N/A  
Efficacy: 158.6 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.24 / 1.38  
Luminous Opening: Rectangular (W 0.21' 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	101	98	100	97	94	96	94	92	92	91	89	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	77	77	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	66	66	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	58	58	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	51	51	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	45	45	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	40	40	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	36	36	36	35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	33	33	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	30	30	30	28

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

	0°	45°	90°
0°	17775	17775	17775
5°	17597	17802	18007
10°	17594	18008	18401
15°	17643	18402	18107
20°	17701	18200	17224
25°	17746	17341	17048
30°	17818	16947	17041
35°	17892	16847	17095
40°	18015	16871	17216
45°	18104	16893	17239
50°	18172	16934	7453
55°	18124	16881	2843
60°	18020	6442	3098
65°	17895	2991	3184
70°	17284	3219	2980
75°	16145	3072	2599
80°	14204	2700	2230
85°	11226	2340	1872

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 18172 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.2	3.9
10°-20°	761.2	11.4
20°-30°	1135.7	17.0
30°-40°	1376.6	20.6
40°-50°	1409.6	21.1
50°-60°	937.4	14.0
60°-70°	534.3	8.0
70°-80°	224.5	3.4
80°-90°	53.5	0.8
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°	2159.1	32.2
0°-40°	3535.7	52.8
0°-60°	5882.7	87.9
0°-90°	6695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6695.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2745	2745	2745	2745	2745	
5°	2707	2761	2739	2745	2770	257
15°	2632	2704	2745	2736	2701	743
25°	2484	2603	2427	2374	2386	1146
35°	2263	2304	2131	2141	2163	1418
45°	1977	1857	1845	1867	1882	1525
55°	1605	1470	1495	327	252	1434
65°	1168	1045	195	208	208	1149
75°	645	135	123	107	104	685
85°	151	38	32	25	25	181
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2745.0	2745.0	2745.0	2745.0	2745.0
2.5°	2710.4	2767.0	2738.7	2741.9	2751.3
5°	2707.2	2760.7	2738.7	2745.0	2770.2
7.5°	2694.6	2751.3	2738.7	2757.6	2785.9
10°	2675.7	2741.9	2738.7	2770.2	2798.5
12.5°	2656.9	2723.0	2738.7	2785.9	2811.1
15°	2631.7	2704.1	2745.0	2735.6	2700.9
17.5°	2600.2	2685.2	2729.3	2593.9	2590.8
20°	2568.7	2660.0	2641.1	2512.1	2499.5
22.5°	2527.8	2634.8	2512.1	2423.9	2439.7
25°	2483.7	2603.3	2427.1	2373.5	2386.1
27.5°	2436.5	2571.9	2335.8	2316.9	2332.6
30°	2383.0	2527.8	2266.5	2260.2	2279.1
32.5°	2326.3	2442.8	2200.4	2203.6	2225.6
35°	2263.4	2304.3	2131.2	2140.6	2162.6
37.5°	2200.4	2175.2	2065.0	2080.8	2102.8
40°	2131.2	2074.5	1995.8	2011.5	2036.7
42.5°	2055.6	1967.5	1920.2	1942.3	1964.3
45°	1976.9	1857.3	1844.7	1866.7	1882.5
47.5°	1895.1	1762.8	1766.0	1781.7	1334.7
50°	1803.8	1668.4	1681.0	1164.7	739.8
52.5°	1706.2	1570.8	1596.0	648.5	374.6
55°	1605.4	1470.1	1495.3	327.4	251.8
57.5°	1498.4	1369.4	975.9	236.1	248.7
60°	1391.4	1262.3	497.4	232.9	239.2
62.5°	1281.2	1155.3	236.1	223.5	226.7
65°	1167.9	1045.1	195.2	207.8	207.8
67.5°	1042.0	928.6	185.7	185.7	182.6
70°	912.9	771.2	170.0	160.5	157.4
72.5°	793.3	295.9	148.0	132.2	129.1
75°	645.3	135.4	122.8	107.0	103.9
77.5°	513.1	113.3	97.6	85.0	81.8
80°	380.9	88.1	72.4	63.0	59.8
82.5°	264.4	59.8	50.4	40.9	40.9
85°	151.1	37.8	31.5	25.2	25.2
87.5°	59.8	18.9	15.7	9.4	9.4
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	22.92	24.45	23.29	24.76	25.07	10.69	12.21	11.05	12.52	12.84
	3H	24.94	26.30	25.32	26.63	26.99	13.00	14.36	13.38	14.69	15.05
	4H	25.41	26.68	25.81	27.03	27.41	13.72	14.99	14.12	15.34	15.72
	6H	25.81	26.99	26.23	27.35	27.75	14.20	15.37	14.61	15.74	16.13
	8H	25.96	27.08	26.39	27.47	27.87	14.34	15.45	14.77	15.84	16.25
	12H	26.06	27.13	26.49	27.51	27.94	14.43	15.49	14.86	15.87	16.30
4H	2H	22.77	24.04	23.17	24.39	24.77	11.49	12.76	11.89	13.11	13.49
	3H	24.97	26.02	25.38	26.42	26.82	14.00	15.05	14.41	15.45	15.85
	4H	25.42	26.36	25.85	26.77	27.21	14.82	15.76	15.25	16.17	16.61
	6H	25.88	26.70	26.34	27.14	27.60	15.41	16.23	15.87	16.67	17.13
	8H	26.07	26.83	26.54	27.28	27.75	15.58	16.34	16.04	16.79	17.25
	12H	26.23	26.90	26.71	27.38	27.85	15.70	16.38	16.18	16.86	17.33
8H	4H	25.33	26.10	25.80	26.54	27.01	15.66	16.42	16.12	16.86	17.33
	6H	25.79	26.42	26.29	26.91	27.39	16.28	16.91	16.78	17.40	17.88
	8H	25.99	26.56	26.51	27.07	27.56	16.48	17.05	17.00	17.56	18.05
	12H	26.18	26.68	26.69	27.17	27.74	16.64	17.14	17.15	17.63	18.20
12H	4H	25.30	25.98	25.79	26.46	26.93	15.73	16.41	16.21	16.89	17.36
	6H	25.75	26.31	26.26	26.82	27.31	16.37	16.94	16.89	17.45	17.94
	8H	25.97	26.47	26.48	26.96	27.53	16.63	17.13	17.14	17.62	18.19