

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: P895143

Luminaire Tested: 8TMB-6SL-RFLW-UNV-L840

Issue Date: 11/11/2024

**Test Information**

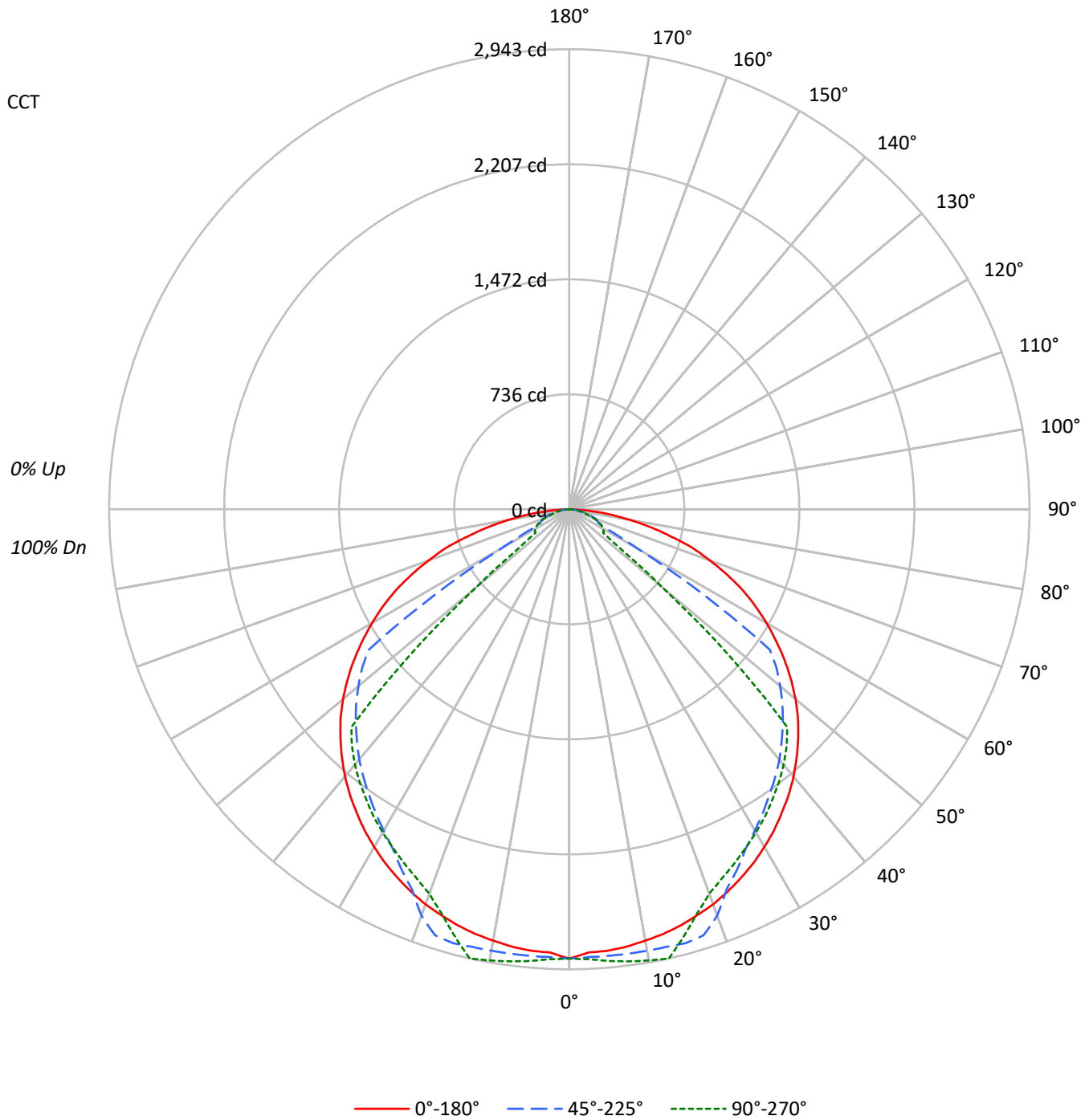
Test Method: LM-79-2019  
Report Number: P895143  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-6SL-RFLW-UNV-L840  
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 4000K  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7010.0 lumens  
Efficiency: N/A  
Efficacy: 166.1 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 (Ain): 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°	18612	18612	18612
5°	18425	18640	18854
10°	18421	18855	19267
15°	18473	19268	18959
20°	18534	19056	18035
25°	18581	18157	17851
30°	18656	17745	17843
35°	18734	17639	17900
40°	18862	17664	18026
45°	18955	17688	18050
50°	19026	17731	7803
55°	18978	17675	2977
60°	18868	6745	3244
65°	18736	3132	3333
70°	18098	3370	3120
75°	16905	3215	2722
80°	14872	2827	2334
85°	11754	2452	1961

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 19026 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.5	3.9
10°-20°	797.0	11.4
20°-30°	1189.2	17.0
30°-40°	1441.4	20.6
40°-50°	1475.9	21.1
50°-60°	981.5	14.0
60°-70°	559.4	8.0
70°-80°	235.0	3.4
80°-90°	56.0	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°	2260.7	32.2
0°-40°	3702.1	52.8
0°-60°	6159.5	87.9
0°-90°	7010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7010.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2874	2874	2874	2874	2874	
5°	2835	2891	2868	2874	2900	270
15°	2756	2831	2874	2864	2828	778
25°	2601	2726	2541	2485	2498	1200
35°	2370	2413	2231	2241	2264	1484
45°	2070	1945	1932	1955	1971	1597
55°	1681	1539	1566	343	264	1501
65°	1223	1094	204	218	218	1203
75°	676	142	128	112	109	717
85°	158	40	33	26	26	190
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2874.2	2874.2	2874.2	2874.2	2874.2
2.5°	2837.9	2897.2	2867.6	2870.9	2880.7
5°	2834.6	2890.6	2867.6	2874.2	2900.5
7.5°	2821.4	2880.7	2867.6	2887.3	2917.0
10°	2801.6	2870.9	2867.6	2900.5	2930.2
12.5°	2781.9	2851.1	2867.6	2917.0	2943.4
15°	2755.5	2831.3	2874.2	2864.3	2828.0
17.5°	2722.5	2811.5	2857.7	2715.9	2712.6
20°	2689.6	2785.2	2765.4	2630.2	2617.1
22.5°	2646.7	2758.8	2630.2	2538.0	2554.4
25°	2600.6	2725.8	2541.3	2485.2	2498.4
27.5°	2551.1	2692.9	2445.7	2425.9	2442.4
30°	2495.1	2646.7	2373.2	2366.6	2386.3
32.5°	2435.8	2557.7	2303.9	2307.2	2330.3
35°	2369.9	2412.7	2231.4	2241.3	2264.4
37.5°	2303.9	2277.6	2162.2	2178.7	2201.8
40°	2231.4	2172.1	2089.7	2106.2	2132.5
42.5°	2152.3	2060.0	2010.6	2033.7	2056.7
45°	2069.9	1944.7	1931.5	1954.6	1971.0
47.5°	1984.2	1845.8	1849.1	1865.6	1397.5
50°	1888.6	1746.9	1760.1	1219.5	774.6
52.5°	1786.5	1644.7	1671.1	679.0	392.2
55°	1681.0	1539.3	1565.6	342.8	263.7
57.5°	1568.9	1433.8	1021.8	247.2	260.4
60°	1456.9	1321.7	520.8	243.9	250.5
62.5°	1341.5	1209.6	247.2	234.0	237.3
65°	1222.8	1094.3	204.4	217.5	217.5
67.5°	1091.0	972.3	194.5	194.5	191.2
70°	955.9	807.5	178.0	168.1	164.8
72.5°	830.6	309.8	154.9	138.4	135.1
75°	675.7	141.7	128.5	112.1	108.8
77.5°	537.3	118.7	102.2	89.0	85.7
80°	398.8	92.3	75.8	65.9	62.6
82.5°	276.9	62.6	52.7	42.8	42.8
85°	158.2	39.6	33.0	26.4	26.4
87.5°	62.6	19.8	16.5	9.9	9.9
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	23.08	24.61	23.45	24.92	25.23	10.85	12.37	11.21	12.68	13.00
	3H	25.10	26.46	25.48	26.79	27.15	13.16	14.52	13.54	14.85	15.21
	4H	25.57	26.84	25.97	27.19	27.57	13.88	15.15	14.28	15.50	15.88
	6H	25.97	27.15	26.39	27.51	27.91	14.36	15.53	14.77	15.90	16.29
	8H	26.12	27.24	26.55	27.63	28.03	14.50	15.61	14.93	16.00	16.41
	12H	26.22	27.29	26.65	27.67	28.10	14.59	15.65	15.02	16.03	16.46
4H	2H	22.93	24.20	23.33	24.55	24.92	11.65	12.92	12.05	13.27	13.65
	3H	25.13	26.18	25.54	26.58	26.98	14.16	15.21	14.57	15.61	16.01
	4H	25.58	26.52	26.01	26.93	27.37	14.98	15.92	15.41	16.33	16.77
	6H	26.04	26.86	26.50	27.30	27.76	15.57	16.39	16.03	16.83	17.29
	8H	26.23	26.99	26.70	27.44	27.91	15.74	16.50	16.20	16.95	17.41
	12H	26.39	27.06	26.87	27.54	28.01	15.86	16.54	16.34	17.02	17.49
8H	4H	25.49	26.26	25.96	26.70	27.17	15.82	16.58	16.28	17.02	17.49
	6H	25.95	26.58	26.45	27.07	27.55	16.44	17.07	16.94	17.56	18.04
	8H	26.15	26.72	26.67	27.23	27.72	16.64	17.21	17.16	17.72	18.20
	12H	26.34	26.84	26.85	27.33	27.90	16.80	17.30	17.31	17.79	18.36
12H	4H	25.46	26.14	25.95	26.62	27.09	15.89	16.57	16.37	17.05	17.52
	6H	25.91	26.47	26.42	26.98	27.47	16.53	17.10	17.05	17.61	18.10
	8H	26.13	26.63	26.64	27.12	27.69	16.79	17.29	17.30	17.78	18.35