

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: P895119

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

Issue Date: 11/11/2024

**Test Information**

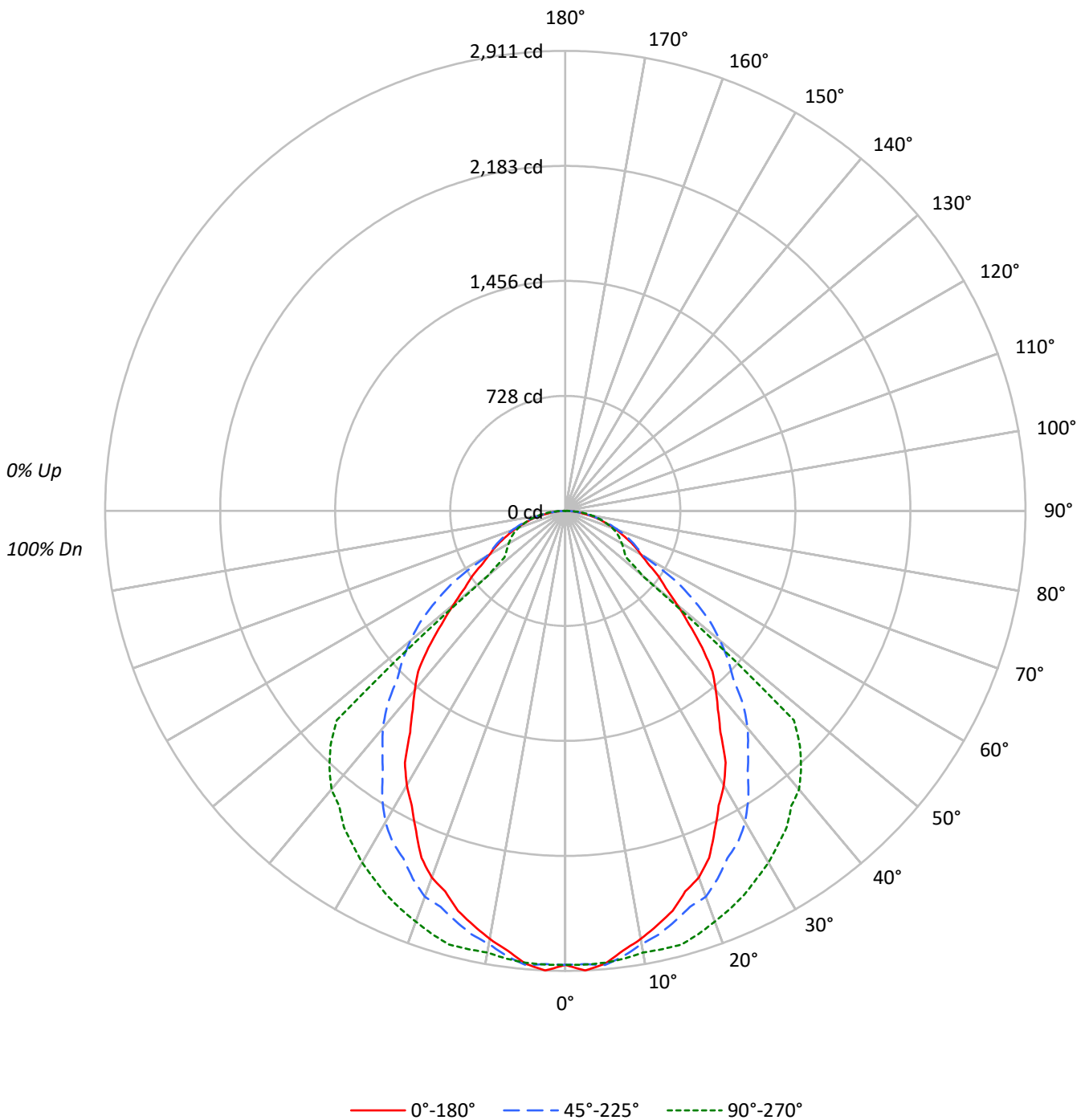
Test Method: LM-79-2019  
Report Number: P895119  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-6SL-LVR-UNV-L840  
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 4000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6130.0 lumens  
Efficiency: N/A  
Efficacy: 145.3 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75	75	
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65	65	
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57	57	
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	50	50	
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	45	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36	36	
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	33	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30	30	

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

	0°	45°	90°
0°	10192	10192	10192
5°	10247	10273	10221
10°	9911	10027	10222
15°	9625	9867	10433
20°	9323	9810	10442
25°	8748	9494	10488
30°	8217	9322	10531
35°	7409	8718	10580
40°	6863	8317	10655
45°	6139	7538	10534
50°	5094	7062	3539
55°	4438	6198	2831
60°	3925	4039	2936
65°	3732	3929	3116
70°	3500	3714	3288
75°	3259	3500	3379
80°	2967	3298	3537
85°	2630	2809	3823

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 10534 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.5	4.4
10°-20°	766.5	12.5
20°-30°	1127.5	18.4
30°-40°	1289.4	21.0
40°-50°	1221.0	19.9
50°-60°	672.7	11.0
60°-70°	431.9	7.0
70°-80°	266.6	4.3
80°-90°	82.0	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°	2166.4	35.3
0°-40°	3455.9	56.4
0°-60°	5349.5	87.3
0°-90°	6130.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6130.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2872	2872	2872	2872	2872	
5°	2877	2900	2884	2884	2870	270
15°	2620	2652	2686	2827	2840	736
25°	2234	2334	2425	2584	2679	1029
35°	1711	1857	2013	2305	2443	1081
45°	1224	1339	1502	1928	2099	936
55°	717	753	1002	516	458	641
65°	444	459	468	417	371	440
75°	238	242	255	268	246	253
85°	65	65	69	79	94	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2872.5	2872.5	2872.5	2872.5	2872.5
2.5°	2910.7	2918.0	2871.1	2869.6	2874.0
5°	2876.9	2900.4	2884.3	2884.3	2869.6
7.5°	2805.0	2844.7	2840.3	2874.0	2857.9
10°	2750.8	2783.0	2783.0	2871.1	2837.3
12.5°	2686.2	2722.9	2743.4	2835.9	2840.3
15°	2620.2	2652.5	2686.2	2827.0	2840.3
17.5°	2524.8	2583.5	2626.1	2764.0	2806.5
20°	2469.1	2504.3	2598.2	2709.7	2765.4
22.5°	2376.7	2428.0	2519.0	2643.7	2725.8
25°	2234.4	2334.1	2425.1	2583.5	2678.9
27.5°	2102.3	2177.1	2364.9	2532.2	2623.1
30°	2005.5	2064.2	2275.4	2457.3	2570.3
32.5°	1888.1	1983.5	2155.1	2384.0	2504.3
35°	1710.6	1857.3	2012.8	2304.8	2442.7
37.5°	1585.9	1687.1	1898.4	2222.6	2350.3
40°	1481.7	1574.2	1795.7	2119.9	2300.4
42.5°	1377.6	1452.4	1666.6	2043.6	2207.9
45°	1223.5	1339.4	1502.3	1927.7	2099.4
47.5°	1062.2	1185.4	1395.2	1829.4	1961.5
50°	922.8	1021.1	1279.3	1634.3	641.1
52.5°	801.0	892.0	1156.1	591.2	484.1
55°	717.4	752.6	1002.0	516.4	457.7
57.5°	617.6	674.9	840.6	491.5	434.3
60°	553.1	578.0	569.2	466.5	413.7
62.5°	501.7	519.3	516.4	441.6	390.2
65°	444.5	459.2	468.0	416.6	371.2
67.5°	387.3	400.5	413.7	385.8	344.8
70°	337.4	346.2	358.0	349.2	316.9
72.5°	286.1	296.3	303.7	311.0	280.2
75°	237.7	242.1	255.3	268.5	246.5
77.5°	193.7	198.1	206.9	221.5	209.8
80°	145.2	149.6	161.4	173.1	173.1
82.5°	102.7	105.6	113.0	129.1	136.4
85°	64.6	64.6	69.0	79.2	93.9
87.5°	24.9	24.9	29.3	35.2	46.9
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	16.02	17.50	16.38	17.81	18.13	13.82	15.30	14.18	15.61	15.93
	3H	17.54	18.87	17.92	19.20	19.56	16.15	17.48	16.53	17.80	18.17
	4H	18.14	19.38	18.54	19.73	20.11	17.10	18.34	17.50	18.69	19.07
	6H	18.59	19.74	19.00	20.11	20.50	17.88	19.03	18.30	19.40	19.79
	8H	18.74	19.83	19.16	20.22	20.62	18.20	19.29	18.62	19.68	20.08
	12H	18.83	19.88	19.26	20.26	20.69	18.44	19.49	18.87	19.87	20.30
4H	2H	16.57	17.81	16.97	18.16	18.54	14.92	16.17	15.32	16.52	16.89
	3H	18.34	19.37	18.75	19.77	20.17	17.37	18.40	17.78	18.80	19.20
	4H	19.06	19.98	19.49	20.40	20.84	18.43	19.36	18.87	19.78	20.22
	6H	19.64	20.45	20.10	20.89	21.35	19.32	20.13	19.78	20.57	21.03
	8H	19.83	20.59	20.30	21.03	21.50	19.67	20.43	20.14	20.87	21.34
	12H	19.97	20.64	20.45	21.12	21.59	19.96	20.64	20.45	21.11	21.59
8H	4H	19.37	20.12	19.83	20.56	21.03	18.82	19.57	19.29	20.02	20.49
	6H	20.08	20.70	20.57	21.19	21.67	19.86	20.48	20.35	20.97	21.45
	8H	20.34	20.90	20.85	21.41	21.90	20.30	20.86	20.82	21.37	21.86
	12H	20.55	21.05	21.06	21.54	22.10	20.69	21.18	21.20	21.68	22.24
12H	4H	19.40	20.08	19.89	20.55	21.03	18.86	19.53	19.34	20.01	20.48
	6H	20.14	20.70	20.66	21.22	21.70	19.92	20.48	20.44	20.99	21.48
	8H	20.46	20.96	20.97	21.45	22.02	20.43	20.93	20.94	21.42	21.99