

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: P894422

Luminaire Tested: 8TMB-10SL-RFLW-UNV-L835

Issue Date: 11/11/2024

**Test Information**

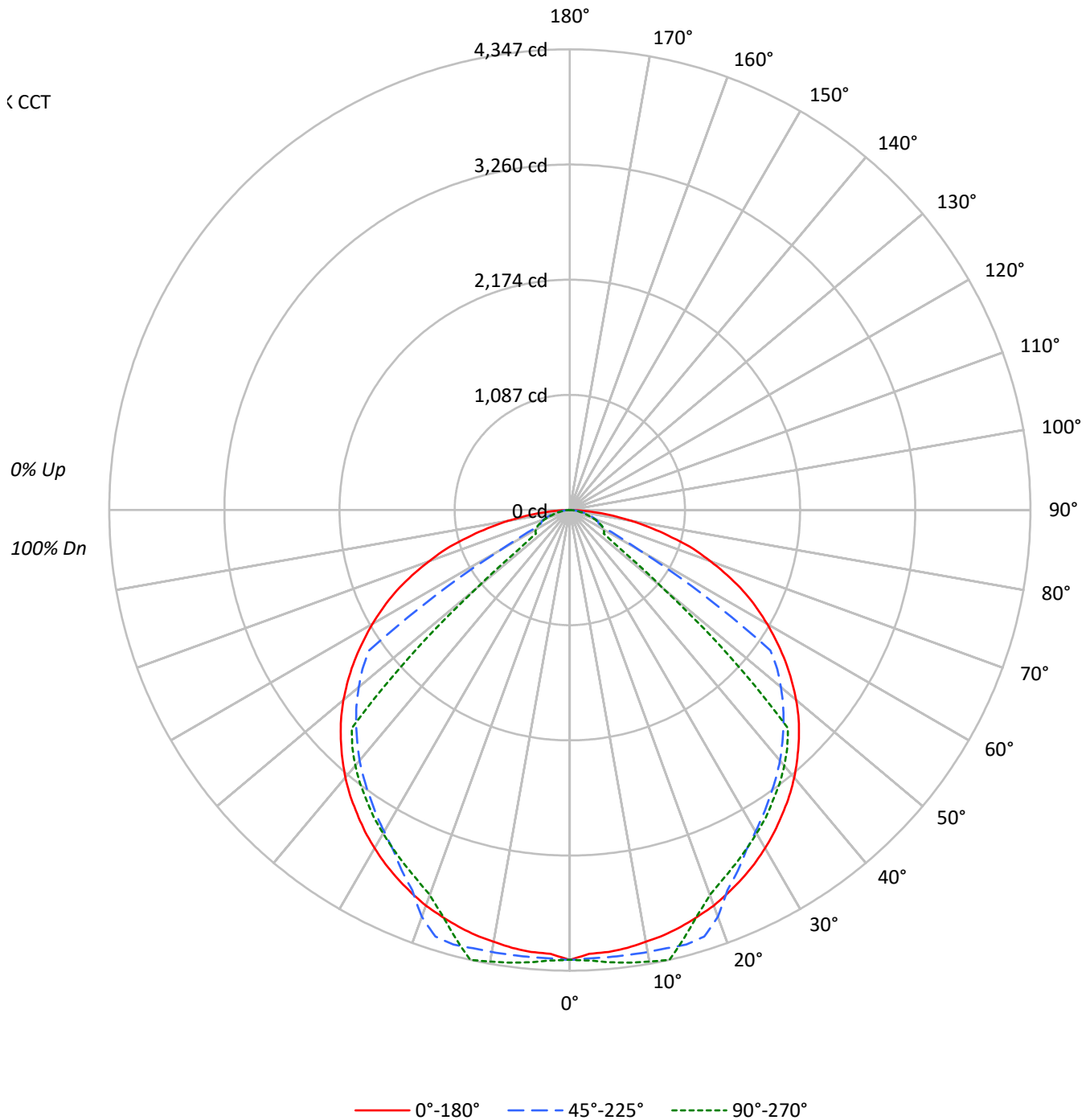
Test Method: LM-79-2019  
Report Number: P894422  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-10SL-RFLW-UNV-L835  
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 3500K  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10352.0 lumens  
Efficiency: N/A  
Efficacy: 147.9 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): 70  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.995  
Total Harmonic Distortion (THDi): 5.63  
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°	27484	27484	27484
5°	27210	27526	27842
10°	27204	27845	28452
15°	27279	28454	27997
20°	27370	28142	26632
25°	27439	26813	26361
30°	27551	26204	26350
35°	27665	26050	26434
40°	27856	26086	26621
45°	27992	26120	26655
50°	28096	26184	11523
55°	28025	26102	4396
60°	27863	9961	4791
65°	27669	4624	4923
70°	26726	4976	4608
75°	24964	4749	4018
80°	21964	4177	3449
85°	17356	3618	2890

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 28096 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	405.3	3.9
10°-20°	1177.0	11.4
20°-30°	1756.1	17.0
30°-40°	2128.6	20.6
40°-50°	2179.6	21.1
50°-60°	1449.4	14.0
60°-70°	826.1	8.0
70°-80°	347.1	3.4
80°-90°	82.8	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°	3338.4	32.2
0°-40°	5467.0	52.8
0°-60°	9096.0	87.9
0°-90°	10352.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10352.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4244	4244	4244	4244	4244	
5°	4186	4269	4235	4244	4283	398
15°	4069	4181	4244	4230	4176	1149
25°	3840	4025	3753	3670	3690	1772
35°	3500	3563	3295	3310	3344	2192
45°	3057	2872	2852	2886	2911	2358
55°	2482	2273	2312	506	389	2217
65°	1806	1616	302	321	321	1777
75°	998	209	190	166	161	1059
85°	234	58	49	39	39	280
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4244.4	4244.4	4244.4	4244.4	4244.4
2.5°	4190.9	4278.5	4234.7	4239.5	4254.1
5°	4186.0	4268.7	4234.7	4244.4	4283.3
7.5°	4166.5	4254.1	4234.7	4263.9	4307.7
10°	4137.3	4239.5	4234.7	4283.3	4327.1
12.5°	4108.1	4210.3	4234.7	4307.7	4346.6
15°	4069.2	4181.1	4244.4	4229.8	4176.3
17.5°	4020.5	4151.9	4220.1	4010.8	4005.9
20°	3971.8	4113.0	4083.8	3884.2	3864.7
22.5°	3908.5	4074.0	3884.2	3747.9	3772.3
25°	3840.4	4025.4	3752.8	3670.0	3689.5
27.5°	3767.4	3976.7	3611.6	3582.4	3606.8
30°	3684.6	3908.5	3504.5	3494.8	3524.0
32.5°	3597.0	3777.1	3402.3	3407.2	3441.3
35°	3499.7	3563.0	3295.3	3309.9	3343.9
37.5°	3402.3	3363.4	3193.0	3217.4	3251.4
40°	3295.3	3207.6	3086.0	3110.3	3149.2
42.5°	3178.4	3042.1	2969.1	3003.2	3037.3
45°	3056.7	2871.8	2852.3	2886.4	2910.7
47.5°	2930.2	2725.8	2730.6	2755.0	2063.8
50°	2789.0	2579.7	2599.2	1800.9	1143.8
52.5°	2638.1	2428.8	2467.8	1002.7	579.2
55°	2482.4	2273.1	2312.0	506.2	389.4
57.5°	2316.9	2117.3	1508.9	365.1	384.5
60°	2151.4	1951.8	769.1	360.2	369.9
62.5°	1981.0	1786.3	365.1	345.6	350.5
65°	1805.8	1616.0	301.8	321.3	321.3
67.5°	1611.1	1435.9	287.2	287.2	282.3
70°	1411.6	1192.5	262.8	248.2	243.4
72.5°	1226.6	457.5	228.8	204.4	199.6
75°	997.8	209.3	189.8	165.5	160.6
77.5°	793.4	175.2	150.9	131.4	126.6
80°	589.0	136.3	112.0	97.3	92.5
82.5°	408.9	92.5	77.9	63.3	63.3
85°	233.6	58.4	48.7	38.9	38.9
87.5°	92.5	29.2	24.3	14.6	14.6
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	24.44	25.96	24.80	26.27	26.59	12.20	13.73	12.57	14.04	14.35
	3H	26.46	27.82	26.84	28.14	28.51	14.52	15.88	14.90	16.21	16.57
	4H	26.92	28.19	27.32	28.54	28.92	15.23	16.50	15.63	16.85	17.23
	6H	27.33	28.50	27.74	28.87	29.26	15.72	16.89	16.13	17.26	17.65
	8H	27.48	28.59	27.90	28.98	29.38	15.85	16.97	16.28	17.36	17.76
	12H	27.58	28.64	28.01	29.02	29.45	15.94	17.01	16.37	17.39	17.82
4H	2H	24.28	25.55	24.68	25.90	26.28	13.00	14.27	13.40	14.62	15.00
	3H	26.48	27.53	26.89	27.93	28.33	15.51	16.56	15.92	16.96	17.36
	4H	26.93	27.87	27.36	28.29	28.72	16.33	17.27	16.77	17.69	18.13
	6H	27.40	28.21	27.85	28.65	29.11	16.93	17.74	17.38	18.18	18.64
	8H	27.59	28.35	28.05	28.79	29.26	17.10	17.86	17.56	18.30	18.77
	12H	27.74	28.42	28.22	28.90	29.37	17.21	17.89	17.70	18.37	18.84
8H	4H	26.85	27.61	27.31	28.05	28.52	17.17	17.93	17.64	18.38	18.85
	6H	27.31	27.94	27.81	28.43	28.91	17.79	18.42	18.29	18.91	19.39
	8H	27.51	28.07	28.02	28.58	29.07	18.00	18.56	18.51	19.07	19.56
	12H	27.69	28.19	28.20	28.69	29.25	18.15	18.65	18.66	19.15	19.71
12H	4H	26.82	27.50	27.30	27.98	28.45	17.24	17.92	17.73	18.40	18.87
	6H	27.26	27.83	27.78	28.34	28.83	17.89	18.45	18.40	18.96	19.45
	8H	27.48	27.99	27.99	28.48	29.04	18.14	18.64	18.65	19.13	19.70