

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: P894421

Luminaire Tested: 8TMB-10SL-RFLW-UNV-L830

Issue Date: 11/11/2024

**Test Information**

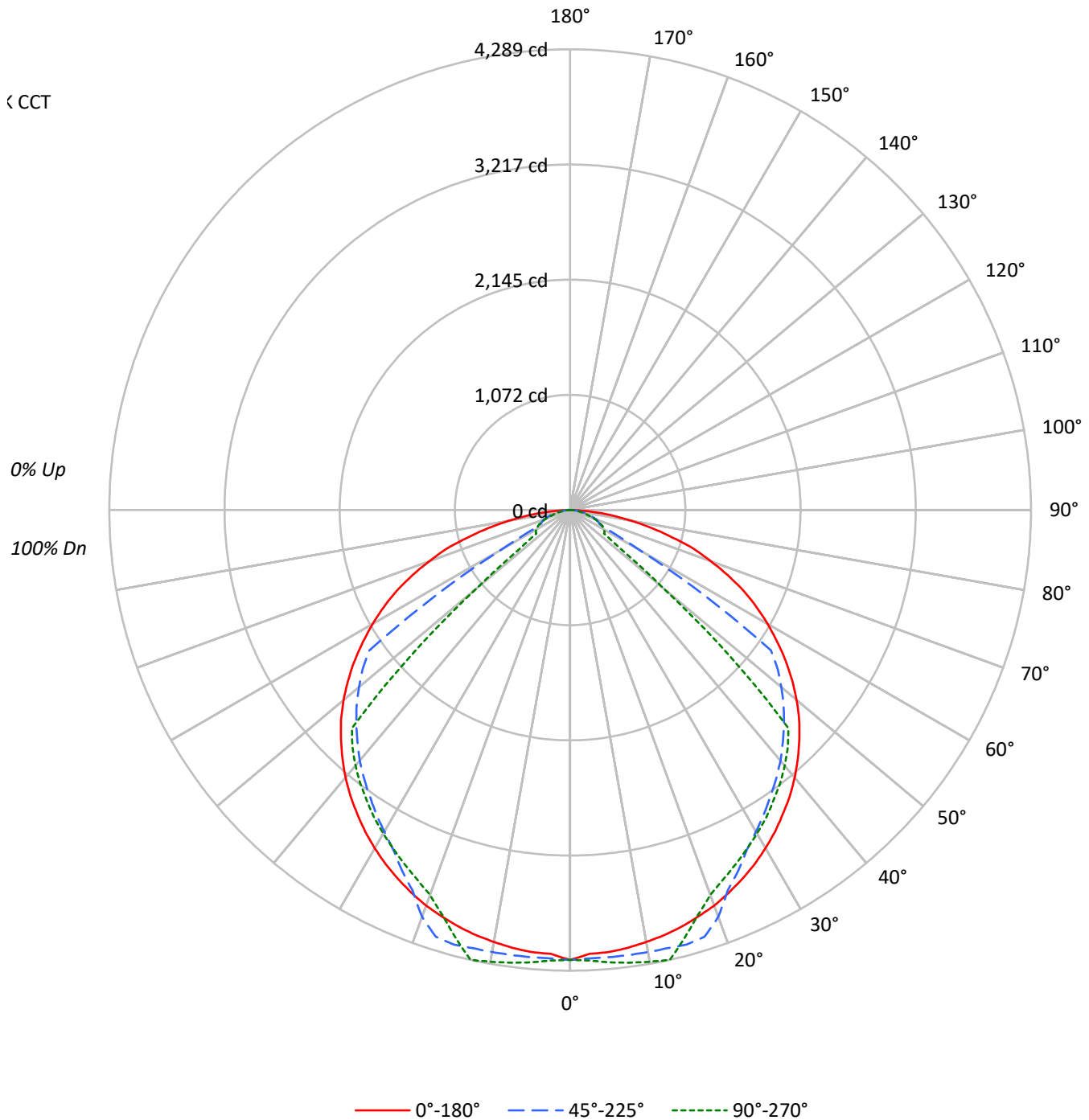
Test Method: LM-79-2019  
Report Number: P894421  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-10SL-RFLW-UNV-L830  
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 3000K  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10215.0 lumens  
Efficiency: N/A  
Efficacy: 145.9 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°	27120	27120	27120
5°	26850	27162	27474
10°	26845	27476	28076
15°	26918	28077	27627
20°	27008	27769	26280
25°	27076	26458	26012
30°	27186	25858	26001
35°	27299	25704	26084
40°	27486	25741	26268
45°	27622	25775	26303
50°	27725	25838	11371
55°	27654	25756	4337
60°	27493	9828	4727
65°	27303	4563	4857
70°	26372	4911	4548
75°	24634	4686	3966
80°	21673	4121	3405
85°	17126	3566	2853

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 27725 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	400.0	3.9
10°-20°	1161.4	11.4
20°-30°	1732.9	17.0
30°-40°	2100.4	20.6
40°-50°	2150.7	21.1
50°-60°	1430.2	14.0
60°-70°	815.2	8.0
70°-80°	342.5	3.4
80°-90°	81.6	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°	3294.2	32.2
0°-40°	5394.7	52.8
0°-60°	8975.6	87.9
0°-90°	10215.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10215.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4188	4188	4188	4188	4188	
5°	4131	4212	4179	4188	4227	393
15°	4015	4126	4188	4174	4121	1134
25°	3790	3972	3703	3622	3641	1748
35°	3453	3516	3252	3266	3300	2163
45°	3016	2834	2815	2848	2872	2327
55°	2450	2243	2281	500	384	2187
65°	1782	1595	298	317	317	1753
75°	985	206	187	163	158	1045
85°	230	58	48	38	38	276
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4188.2	4188.2	4188.2	4188.2	4188.2
2.5°	4135.4	4221.8	4178.6	4183.4	4197.8
5°	4130.6	4212.2	4178.6	4188.2	4226.7
7.5°	4111.4	4197.8	4178.6	4207.4	4250.7
10°	4082.6	4183.4	4178.6	4226.7	4269.9
12.5°	4053.7	4154.6	4178.6	4250.7	4289.1
15°	4015.3	4125.8	4188.2	4173.8	4121.0
17.5°	3967.3	4097.0	4164.2	3957.7	3952.9
20°	3919.3	4058.5	4029.7	3832.8	3813.6
22.5°	3856.8	4020.1	3832.8	3698.3	3722.3
25°	3789.6	3972.1	3703.1	3621.5	3640.7
27.5°	3717.5	3924.1	3563.8	3535.0	3559.0
30°	3635.9	3856.8	3458.2	3448.6	3477.4
32.5°	3549.4	3727.1	3357.3	3362.1	3395.7
35°	3453.4	3515.8	3251.6	3266.0	3299.7
37.5°	3357.3	3318.9	3150.8	3174.8	3208.4
40°	3251.6	3165.2	3045.1	3069.1	3107.5
42.5°	3136.4	3001.9	2929.8	2963.5	2997.1
45°	3016.3	2833.8	2814.6	2848.2	2872.2
47.5°	2891.4	2689.7	2694.5	2718.5	2036.5
50°	2752.1	2545.6	2564.8	1777.1	1128.7
52.5°	2603.2	2396.7	2435.1	989.4	571.6
55°	2449.5	2243.0	2281.4	499.5	384.2
57.5°	2286.2	2089.3	1488.9	360.2	379.4
60°	2122.9	1926.0	758.9	355.4	365.0
62.5°	1954.8	1762.7	360.2	341.0	345.8
65°	1781.9	1594.6	297.8	317.0	317.0
67.5°	1589.8	1416.9	283.4	283.4	278.6
70°	1392.9	1176.7	259.4	245.0	240.2
72.5°	1210.4	451.5	225.7	201.7	196.9
75°	984.6	206.5	187.3	163.3	158.5
77.5°	782.9	172.9	148.9	129.7	124.9
80°	581.2	134.5	110.5	96.1	91.3
82.5°	403.5	91.3	76.8	62.4	62.4
85°	230.5	57.6	48.0	38.4	38.4
87.5°	91.3	28.8	24.0	14.4	14.4
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	24.39	25.91	24.76	26.23	26.54	12.16	13.68	12.52	13.99	14.31
	3H	26.41	27.77	26.79	28.10	28.46	14.47	15.83	14.85	16.16	16.52
	4H	26.87	28.15	27.27	28.50	28.87	15.19	16.46	15.59	16.81	17.18
	6H	27.28	28.45	27.69	28.82	29.21	15.67	16.84	16.08	17.21	17.60
	8H	27.43	28.55	27.86	28.94	29.34	15.81	16.92	16.23	17.31	17.71
	12H	27.53	28.60	27.96	28.98	29.41	15.89	16.96	16.32	17.34	17.77
4H	2H	24.23	25.51	24.63	25.85	26.23	12.96	14.23	13.36	14.58	14.95
	3H	26.44	27.48	26.85	27.88	28.29	15.47	16.51	15.88	16.91	17.32
	4H	26.88	27.82	27.32	28.24	28.68	16.29	17.23	16.72	17.64	18.08
	6H	27.35	28.16	27.81	28.61	29.07	16.88	17.69	17.34	18.14	18.60
	8H	27.54	28.30	28.01	28.75	29.21	17.05	17.81	17.51	18.25	18.72
	12H	27.69	28.37	28.18	28.85	29.32	17.17	17.85	17.65	18.32	18.80
8H	4H	26.80	27.56	27.27	28.01	28.48	17.13	17.89	17.59	18.33	18.80
	6H	27.26	27.89	27.76	28.38	28.86	17.75	18.38	18.25	18.87	19.35
	8H	27.46	28.03	27.98	28.54	29.03	17.95	18.51	18.46	19.02	19.51
	12H	27.65	28.15	28.16	28.64	29.21	18.11	18.61	18.62	19.10	19.66
12H	4H	26.77	27.45	27.25	27.93	28.40	17.20	17.88	17.68	18.35	18.83
	6H	27.22	27.78	27.73	28.29	28.78	17.84	18.41	18.36	18.92	19.41
	8H	27.44	27.94	27.95	28.43	29.00	18.09	18.60	18.60	19.09	19.65