

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: P894397

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

Issue Date: 11/11/2024

**Test Information**

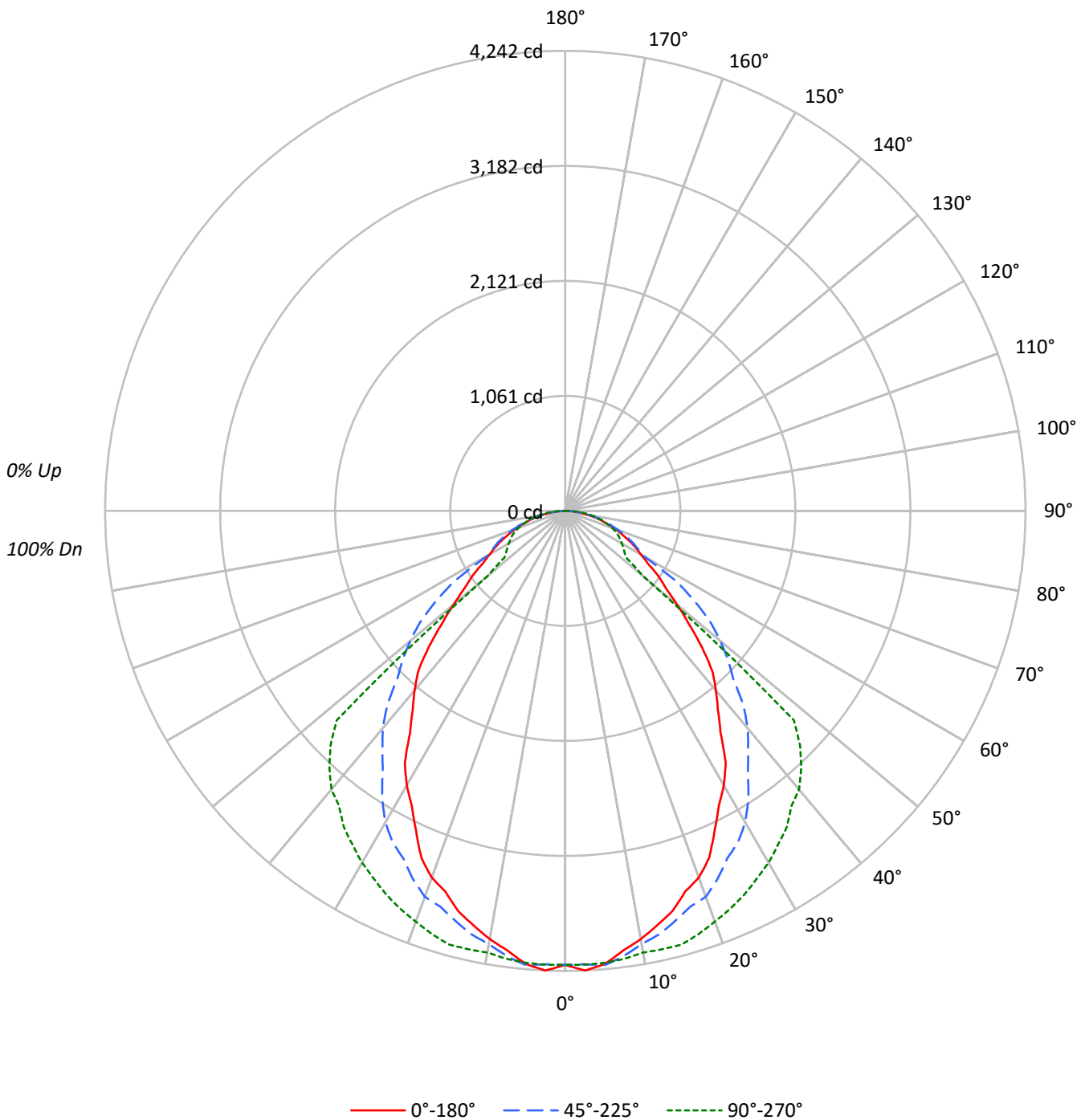
Test Method: LM-79-2019  
Report Number: P894397  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-10SL-LVR-UNV-L830  
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 3000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8934.0 lumens  
Efficiency: N/A  
Efficacy: 127.6 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): 70  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

TEST NUMBER: P894397  
CATALOG NUMBER: 8TMB-10SL-LVR-UNV-L830

### Luminous Intensity Polar Plot





TEST NUMBER: P894397

CATALOG NUMBER: 8TMB-10SL-LVR-UNV-L830

**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	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

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

	0°	45°	90°
0°	14854	14854	14854
5°	14934	14972	14896
10°	14444	14614	14899
15°	14027	14381	15205
20°	13587	14298	15218
25°	12749	13837	15285
30°	11975	13587	15347
35°	10799	12706	15420
40°	10002	12122	15528
45°	8948	10987	15353
50°	7424	10292	5158
55°	6468	9034	4127
60°	5720	5887	4279
65°	5440	5727	4542
70°	5102	5412	4791
75°	4749	5100	4924
80°	4326	4806	5155
85°	3831	4091	5569

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 15353 cd/sqm



TEST NUMBER: P894397  
 CATALOG NUMBER: 8TMB-10SL-LVR-UNV-L830

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.1	4.4
10°-20°	1117.1	12.5
20°-30°	1643.3	18.4
30°-40°	1879.2	21.0
40°-50°	1779.4	19.9
50°-60°	980.4	11.0
60°-70°	629.5	7.0
70°-80°	388.5	4.3
80°-90°	119.6	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°	3157.4	35.3
0°-40°	5036.7	56.4
0°-60°	7796.5	87.3
0°-90°	8934.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8934.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4186	4186	4186	4186	4186	
5°	4193	4227	4204	4204	4182	393
15°	3819	3866	3915	4120	4139	1072
25°	3256	3402	3534	3765	3904	1500
35°	2493	2707	2934	3359	3560	1576
45°	1783	1952	2190	2810	3060	1364
55°	1046	1097	1460	753	667	935
65°	648	669	682	607	541	641
75°	346	353	372	391	359	368
85°	94	94	100	116	137	105
90°	0	0	0	0	0	



TEST NUMBER: P894397

CATALOG NUMBER: 8TMB-10SL-LVR-UNV-L830

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4186.5	4186.5	4186.5	4186.5	4186.5
2.5°	4242.1	4252.8	4184.3	4182.2	4188.6
5°	4192.9	4227.1	4203.6	4203.6	4182.2
7.5°	4088.1	4145.9	4139.4	4188.6	4165.1
10°	4009.0	4056.1	4056.1	4184.3	4135.2
12.5°	3914.9	3968.4	3998.3	4133.0	4139.4
15°	3818.7	3865.8	3914.9	4120.2	4139.4
17.5°	3679.7	3765.3	3827.3	4028.3	4090.3
20°	3598.5	3649.8	3786.7	3949.2	4030.4
22.5°	3463.8	3538.6	3671.2	3852.9	3972.7
25°	3256.4	3401.8	3534.4	3765.3	3904.3
27.5°	3064.0	3173.0	3446.7	3690.4	3823.0
30°	2922.8	3008.4	3316.3	3581.4	3746.0
32.5°	2751.8	2890.8	3140.9	3474.5	3649.8
35°	2493.1	2706.9	2933.5	3359.0	3560.0
37.5°	2311.3	2458.9	2766.8	3239.3	3425.3
40°	2159.5	2294.2	2617.1	3089.6	3352.6
42.5°	2007.7	2116.8	2428.9	2978.4	3217.9
45°	1783.2	1952.1	2189.5	2809.5	3059.7
47.5°	1548.0	1727.6	2033.4	2666.3	2858.7
50°	1344.9	1488.1	1864.5	2381.9	934.4
52.5°	1167.4	1300.0	1684.9	861.7	705.6
55°	1045.6	1096.9	1460.4	752.6	667.1
57.5°	900.2	983.5	1225.2	716.3	632.9
60°	806.1	842.4	829.6	679.9	603.0
62.5°	731.2	756.9	752.6	643.6	568.7
65°	647.9	669.2	682.1	607.2	541.0
67.5°	564.5	583.7	603.0	562.3	502.5
70°	491.8	504.6	521.7	508.9	461.8
72.5°	416.9	431.9	442.6	453.3	408.4
75°	346.4	352.8	372.0	391.3	359.2
77.5°	282.2	288.6	301.5	322.9	305.8
80°	211.7	218.1	235.2	252.3	252.3
82.5°	149.7	153.9	164.6	188.2	198.8
85°	94.1	94.1	100.5	115.5	136.8
87.5°	36.3	36.3	42.8	51.3	68.4
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P894397  
 CATALOG NUMBER: 8TMB-10SL-LVR-UNV-L830

**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	17.32	18.81	17.69	19.12	19.44	15.13	16.61	15.49	16.92	17.24
	3H	18.85	20.18	19.23	20.51	20.87	17.46	18.78	17.84	19.11	19.48
	4H	19.44	20.69	19.84	21.04	21.41	18.41	19.65	18.81	20.00	20.38
	6H	19.90	21.05	20.31	21.41	21.81	19.19	20.34	19.60	20.71	21.10
	8H	20.04	21.14	20.47	21.53	21.93	19.50	20.60	19.93	20.99	21.39
	12H	20.14	21.19	20.57	21.57	22.00	19.75	20.80	20.18	21.18	21.61
4H	2H	17.88	19.12	18.28	19.47	19.85	16.23	17.47	16.63	17.82	18.20
	3H	19.65	20.68	20.06	21.08	21.48	18.68	19.71	19.09	20.11	20.51
	4H	20.37	21.29	20.80	21.71	22.15	19.74	20.67	20.18	21.09	21.52
	6H	20.95	21.76	21.41	22.20	22.66	20.63	21.44	21.09	21.88	22.34
	8H	21.14	21.89	21.61	22.34	22.81	20.98	21.74	21.45	22.18	22.65
	12H	21.28	21.95	21.76	22.43	22.90	21.27	21.94	21.75	22.42	22.89
8H	4H	20.67	21.43	21.14	21.87	22.34	20.13	20.88	20.59	21.33	21.80
	6H	21.39	22.01	21.88	22.50	22.98	21.17	21.79	21.66	22.28	22.76
	8H	21.65	22.21	22.16	22.72	23.21	21.61	22.17	22.13	22.68	23.17
	12H	21.86	22.36	22.37	22.85	23.41	21.99	22.49	22.50	22.99	23.55
12H	4H	20.71	21.38	21.19	21.86	22.33	20.16	20.84	20.65	21.32	21.79
	6H	21.45	22.01	21.97	22.52	23.01	21.23	21.79	21.74	22.30	22.79
	8H	21.77	22.27	22.28	22.76	23.33	21.74	22.24	22.25	22.73	23.29