

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: P894408

Luminaire Tested: 8TMB-10SL-LVRA-UNV-L850

Issue Date: 11/11/2024

**Test Information**

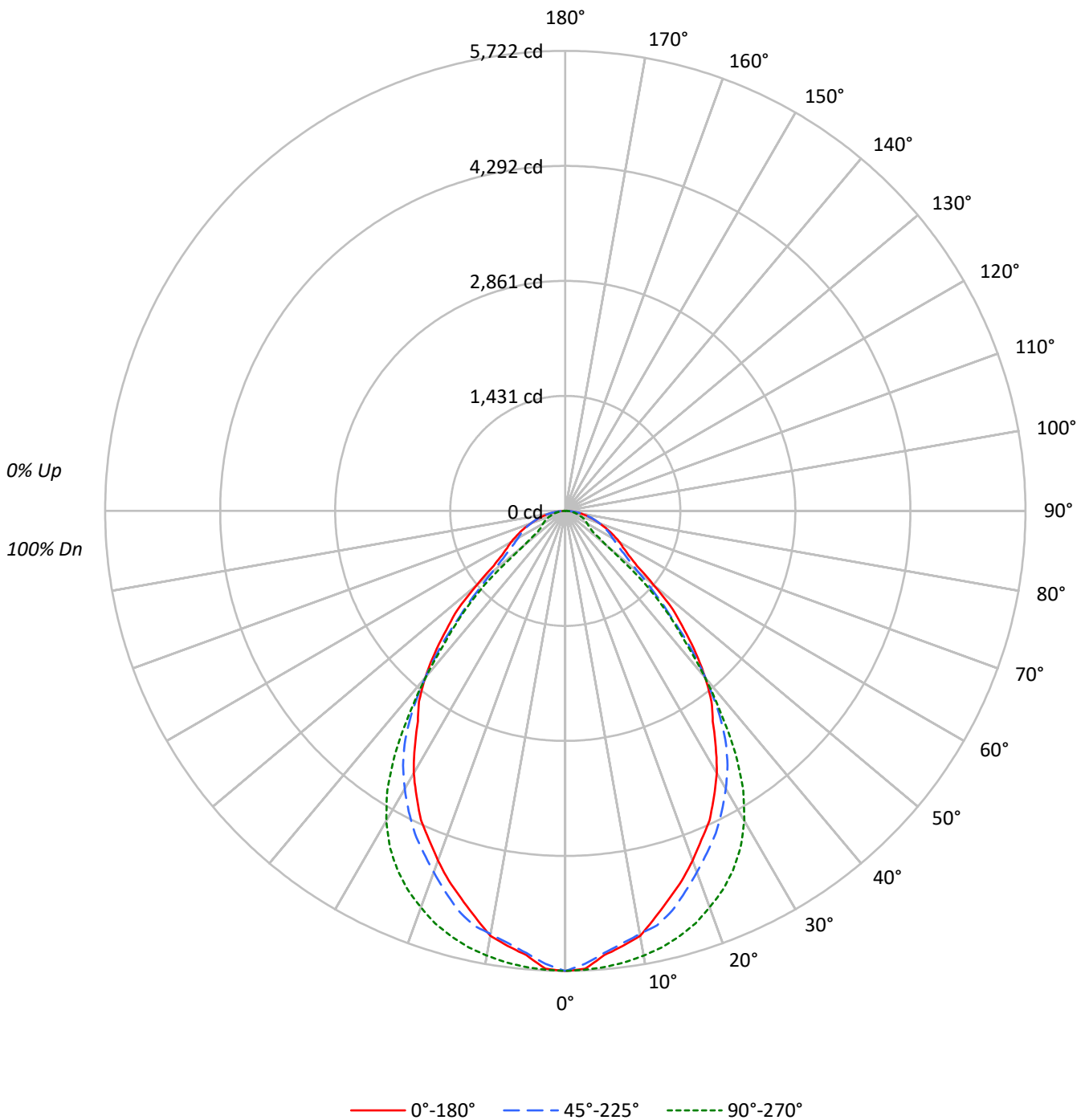
Test Method: LM-79-2019  
Report Number: P894408  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-10SL-LVRA-UNV-L850  
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 5000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9287.0 lumens  
Efficiency: N/A  
Efficacy: 132.7 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12  
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 (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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35

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

	0°	45°	90°
0°	20303	20303	20303
5°	19756	19667	20281
10°	19336	19251	20234
15°	18338	18901	20120
20°	17469	18059	19813
25°	16617	17327	19308
30°	15438	16357	18230
35°	13843	15031	15989
40°	12541	12569	12501
45°	10486	9287	9058
50°	7921	6537	3704
55°	5957	5228	2336
60°	5537	4814	2250
65°	5151	4804	2253
70°	4712	4712	2218
75°	4468	4590	2143
80°	4127	4340	2201
85°	3603	3782	2402

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 10731 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	528.6	5.7
10°-20°	1456.4	15.7
20°-30°	2065.3	22.2
30°-40°	2127.7	22.9
40°-50°	1486.1	16.0
50°-60°	713.1	7.7
60°-70°	500.3	5.4
70°-80°	312.8	3.4
80°-90°	96.7	1.0
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°	4050.3	43.6
0°-40°	6178.0	66.5
0°-60°	8377.2	90.2
0°-90°	9287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9287.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5722	5722	5722	5722	5722	
5°	5547	5539	5522	5666	5694	525
15°	4992	5029	5146	5293	5477	1406
25°	4244	4287	4426	4725	4932	1941
35°	3196	3283	3470	3542	3691	2014
45°	2090	2138	1851	1756	1805	1610
55°	963	916	845	541	378	902
65°	614	574	572	435	268	608
75°	326	322	335	289	156	343
85°	88	88	93	91	59	99
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5722.3	5722.3	5722.3	5722.3	5722.3
2.5°	5700.1	5682.4	5639.7	5717.8	5711.9
5°	5546.8	5539.4	5521.7	5666.2	5694.2
7.5°	5459.7	5445.0	5424.3	5583.6	5661.8
10°	5366.8	5384.5	5343.2	5489.2	5616.1
12.5°	5175.1	5222.3	5278.3	5391.9	5560.0
15°	4992.2	5029.1	5145.6	5293.1	5477.4
17.5°	4821.1	4863.9	4964.2	5185.4	5381.6
20°	4626.5	4685.5	4782.8	5066.0	5247.4
22.5°	4425.9	4480.5	4602.9	4906.7	5108.7
25°	4244.5	4287.3	4425.9	4725.3	4931.8
27.5°	4004.1	4083.7	4215.0	4504.1	4720.9
30°	3768.1	3836.0	3992.3	4235.6	4449.5
32.5°	3483.5	3582.3	3754.9	3940.7	4119.1
35°	3195.9	3282.9	3470.2	3542.5	3691.4
37.5°	2986.5	3010.1	3116.3	3107.4	3191.5
40°	2707.7	2754.9	2713.6	2603.0	2698.9
42.5°	2406.9	2462.9	2296.3	2168.0	2201.9
45°	2089.8	2138.5	1850.9	1756.5	1805.2
47.5°	1815.5	1811.1	1492.5	1429.1	1361.2
50°	1435.0	1482.2	1184.3	1066.3	671.0
52.5°	1120.9	1138.6	976.3	681.4	441.0
55°	963.0	915.9	845.1	541.3	377.6
57.5°	855.4	796.4	749.2	502.9	345.1
60°	780.2	713.8	678.4	477.8	317.1
62.5°	694.6	643.0	629.7	455.7	292.0
65°	613.5	573.7	572.2	435.1	268.4
67.5°	532.4	510.3	516.2	410.0	241.9
70°	454.2	449.8	454.2	377.6	213.8
72.5°	387.9	383.5	395.2	336.3	182.9
75°	325.9	321.5	334.8	289.1	156.3
77.5°	259.6	262.5	271.4	240.4	131.3
80°	202.0	202.0	212.4	188.8	107.7
82.5°	144.5	146.0	151.9	138.6	84.1
85°	88.5	88.5	92.9	91.4	59.0
87.5°	29.5	33.9	39.8	42.8	29.5
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	16.11	17.46	16.47	17.77	18.09	12.44	13.79	12.80	14.11	14.42
	3H	17.85	19.05	18.23	19.38	19.75	14.42	15.62	14.80	15.95	16.32
	4H	18.52	19.64	18.92	20.00	20.38	15.12	16.25	15.52	16.60	16.98
	6H	19.02	20.06	19.44	20.43	20.83	15.64	16.68	16.06	17.05	17.44
	8H	19.20	20.18	19.62	20.57	20.98	15.83	16.81	16.26	17.20	17.61
	12H	19.30	20.25	19.74	20.63	21.06	15.97	16.91	16.40	17.29	17.72
4H	2H	16.64	17.77	17.04	18.12	18.50	14.06	15.19	14.46	15.54	15.92
	3H	18.61	19.55	19.03	19.95	20.35	16.24	17.17	16.65	17.57	17.98
	4H	19.42	20.25	19.85	20.67	21.11	17.12	17.96	17.55	18.37	18.82
	6H	20.06	20.78	20.52	21.23	21.69	17.76	18.49	18.22	18.93	19.40
	8H	20.28	20.96	20.75	21.40	21.87	17.97	18.65	18.44	19.09	19.56
	12H	20.43	21.03	20.92	21.52	21.99	18.13	18.73	18.61	19.21	19.68
8H	4H	19.70	20.38	20.17	20.82	21.29	17.77	18.45	18.24	18.89	19.36
	6H	20.48	21.04	20.98	21.53	22.02	18.63	19.19	19.13	19.68	20.16
	8H	20.79	21.29	21.31	21.80	22.29	18.96	19.46	19.48	19.97	20.46
	12H	21.02	21.46	21.53	21.96	22.53	19.22	19.66	19.73	20.16	20.73
12H	4H	19.72	20.32	20.20	20.80	21.27	17.84	18.44	18.33	18.92	19.40
	6H	20.54	21.04	21.06	21.55	22.04	18.77	19.27	19.29	19.78	20.27
	8H	20.90	21.34	21.41	21.84	22.41	19.18	19.62	19.69	20.12	20.68