

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: P895240

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

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P895240  
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-8SL-LVRA-UNV-L850  
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 5000K CCT  
Light Source: -  
Ballast/Driver: -

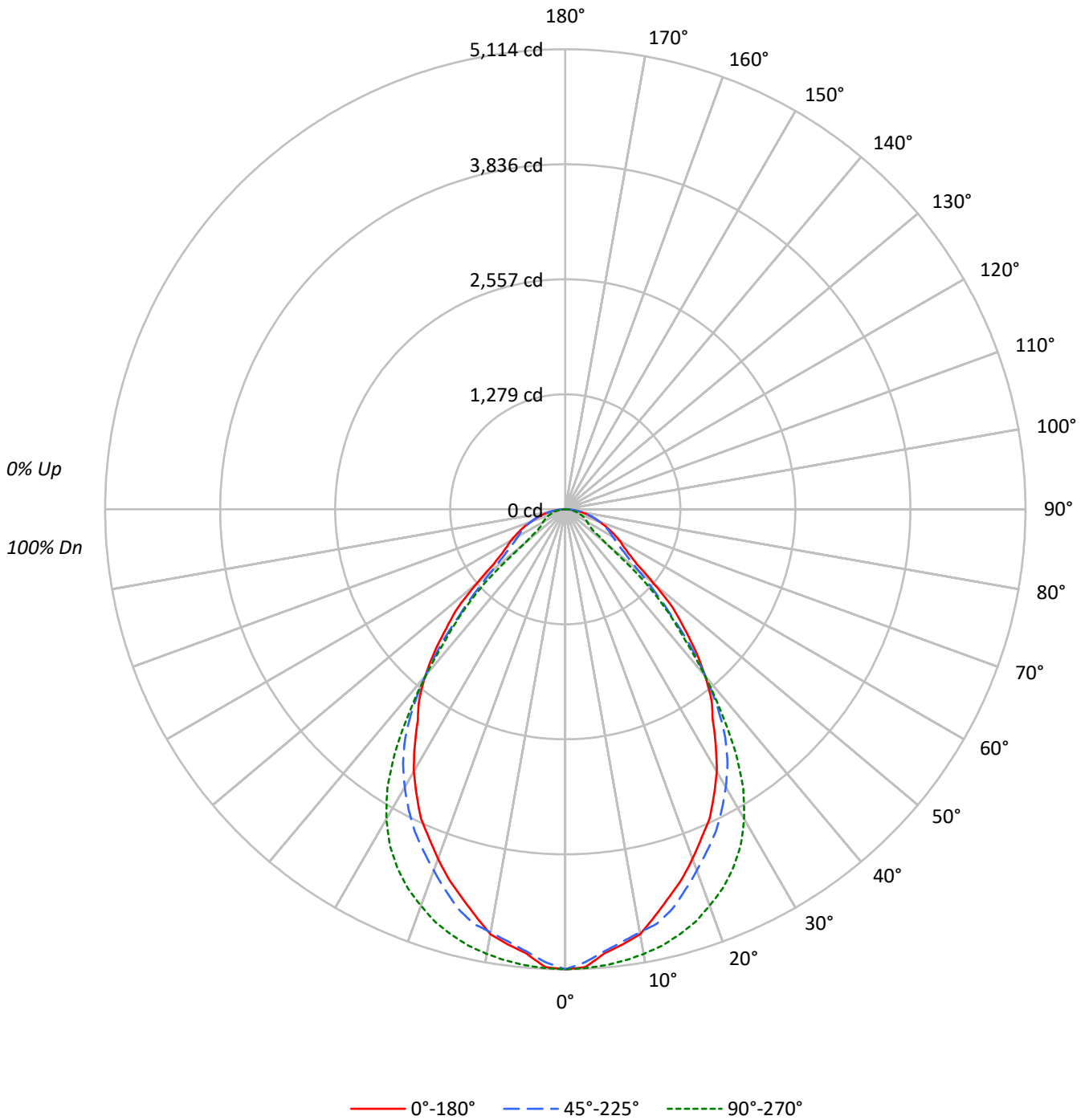
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8299.0 lumens  
Efficiency: N/A  
Efficacy: 139.2 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): 59.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 3.8  
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	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°	18143	18143	18143
5°	17654	17574	18124
10°	17279	17203	18081
15°	16387	16891	17980
20°	15610	16138	17705
25°	14849	15484	17254
30°	13796	14617	16290
35°	12370	13432	14288
40°	11207	11232	11171
45°	9371	8299	8094
50°	7078	5842	3310
55°	5324	4672	2087
60°	4948	4302	2011
65°	4603	4293	2014
70°	4211	4211	1982
75°	3993	4102	1915
80°	3690	3878	1966
85°	3220	3379	2145

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 9589 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	472.3	5.7
10°-20°	1301.5	15.7
20°-30°	1845.5	22.2
30°-40°	1901.3	22.9
40°-50°	1328.0	16.0
50°-60°	637.2	7.7
60°-70°	447.1	5.4
70°-80°	279.5	3.4
80°-90°	86.5	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°	3619.4	43.6
0°-40°	5520.7	66.5
0°-60°	7486.0	90.2
0°-90°	8299.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8299.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5114	5114	5114	5114	5114	
5°	4957	4950	4934	5063	5088	469
15°	4461	4494	4598	4730	4895	1256
25°	3793	3831	3955	4223	4407	1734
35°	2856	2934	3101	3166	3299	1800
45°	1868	1911	1654	1570	1613	1439
55°	861	818	755	484	337	806
65°	548	513	511	389	240	543
75°	291	287	299	258	140	307
85°	79	79	83	82	53	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5113.5	5113.5	5113.5	5113.5	5113.5
2.5°	5093.7	5077.9	5039.7	5109.5	5104.3
5°	4956.7	4950.1	4934.3	5063.4	5088.5
7.5°	4878.9	4865.7	4847.3	4989.6	5059.5
10°	4795.9	4811.7	4774.8	4905.3	5018.6
12.5°	4624.5	4666.7	4716.8	4818.3	4968.5
15°	4461.1	4494.1	4598.2	4730.0	4894.7
17.5°	4308.2	4346.5	4436.1	4633.8	4809.1
20°	4134.3	4187.0	4274.0	4527.0	4689.1
22.5°	3955.0	4003.8	4113.2	4384.7	4565.2
25°	3792.9	3831.2	3955.0	4222.6	4407.1
27.5°	3578.1	3649.3	3766.6	4024.9	4218.6
30°	3367.3	3427.9	3567.6	3785.0	3976.1
32.5°	3112.9	3201.2	3355.4	3521.5	3680.9
35°	2855.9	2933.7	3101.0	3165.6	3298.7
37.5°	2668.8	2689.9	2784.7	2776.8	2852.0
40°	2419.7	2461.9	2425.0	2326.1	2411.8
42.5°	2150.8	2200.9	2052.0	1937.3	1967.6
45°	1867.5	1911.0	1654.0	1569.6	1613.1
47.5°	1622.3	1618.4	1333.7	1277.1	1216.4
50°	1282.3	1324.5	1058.3	952.8	599.6
52.5°	1001.6	1017.4	872.5	608.9	394.1
55°	860.6	818.4	755.2	483.7	337.4
57.5°	764.4	711.7	669.5	449.4	308.4
60°	697.2	637.9	606.2	427.0	283.4
62.5°	620.7	574.6	562.7	407.2	260.9
65°	548.3	512.7	511.3	388.8	239.9
67.5°	475.8	456.0	461.3	366.4	216.1
70°	405.9	402.0	405.9	337.4	191.1
72.5°	346.6	342.7	353.2	300.5	163.4
75°	291.3	287.3	299.2	258.3	139.7
77.5°	232.0	234.6	242.5	214.8	117.3
80°	180.6	180.6	189.8	168.7	96.2
82.5°	129.2	130.5	135.7	123.9	75.1
85°	79.1	79.1	83.0	81.7	52.7
87.5°	26.4	30.3	35.6	38.2	26.4
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	15.72	17.07	16.08	17.38	17.70	12.05	13.40	12.41	13.71	14.03
	3H	17.46	18.66	17.83	18.99	19.36	14.02	15.23	14.40	15.56	15.93
	4H	18.13	19.25	18.53	19.60	19.99	14.73	15.86	15.13	16.21	16.59
	6H	18.63	19.67	19.05	20.04	20.44	15.25	16.29	15.67	16.66	17.05
	8H	18.81	19.79	19.23	20.18	20.59	15.44	16.42	15.87	16.81	17.22
	12H	18.91	19.86	19.35	20.24	20.67	15.58	16.52	16.01	16.90	17.33
4H	2H	16.25	17.37	16.65	17.72	18.11	13.67	14.80	14.07	15.15	15.53
	3H	18.22	19.15	18.64	19.56	19.96	15.85	16.78	16.26	17.18	17.58
	4H	19.03	19.86	19.46	20.28	20.72	16.73	17.56	17.16	17.98	18.42
	6H	19.67	20.39	20.13	20.84	21.30	17.37	18.10	17.83	18.54	19.01
	8H	19.89	20.57	20.36	21.01	21.48	17.58	18.26	18.05	18.70	19.17
	12H	20.04	20.64	20.53	21.13	21.60	17.74	18.34	18.22	18.82	19.29
8H	4H	19.31	19.99	19.78	20.43	20.90	17.38	18.05	17.85	18.50	18.97
	6H	20.09	20.65	20.59	21.14	21.62	18.24	18.79	18.74	19.29	19.77
	8H	20.40	20.90	20.92	21.41	21.90	18.57	19.07	19.09	19.58	20.07
	12H	20.63	21.07	21.14	21.57	22.14	18.83	19.27	19.34	19.76	20.33
12H	4H	19.33	19.93	19.81	20.41	20.88	17.45	18.05	17.94	18.53	19.01
	6H	20.15	20.65	20.67	21.16	21.65	18.38	18.88	18.90	19.39	19.88
	8H	20.51	20.95	21.02	21.45	22.02	18.79	19.23	19.30	19.72	20.29