

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: P894526

Luminaire Tested: 8TMB-12SL-LVRF-UNV-L835

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P894526  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-12SL-LVRF-UNV-L835  
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 3500K (C)  
Light Source: -  
Ballast/Driver: -

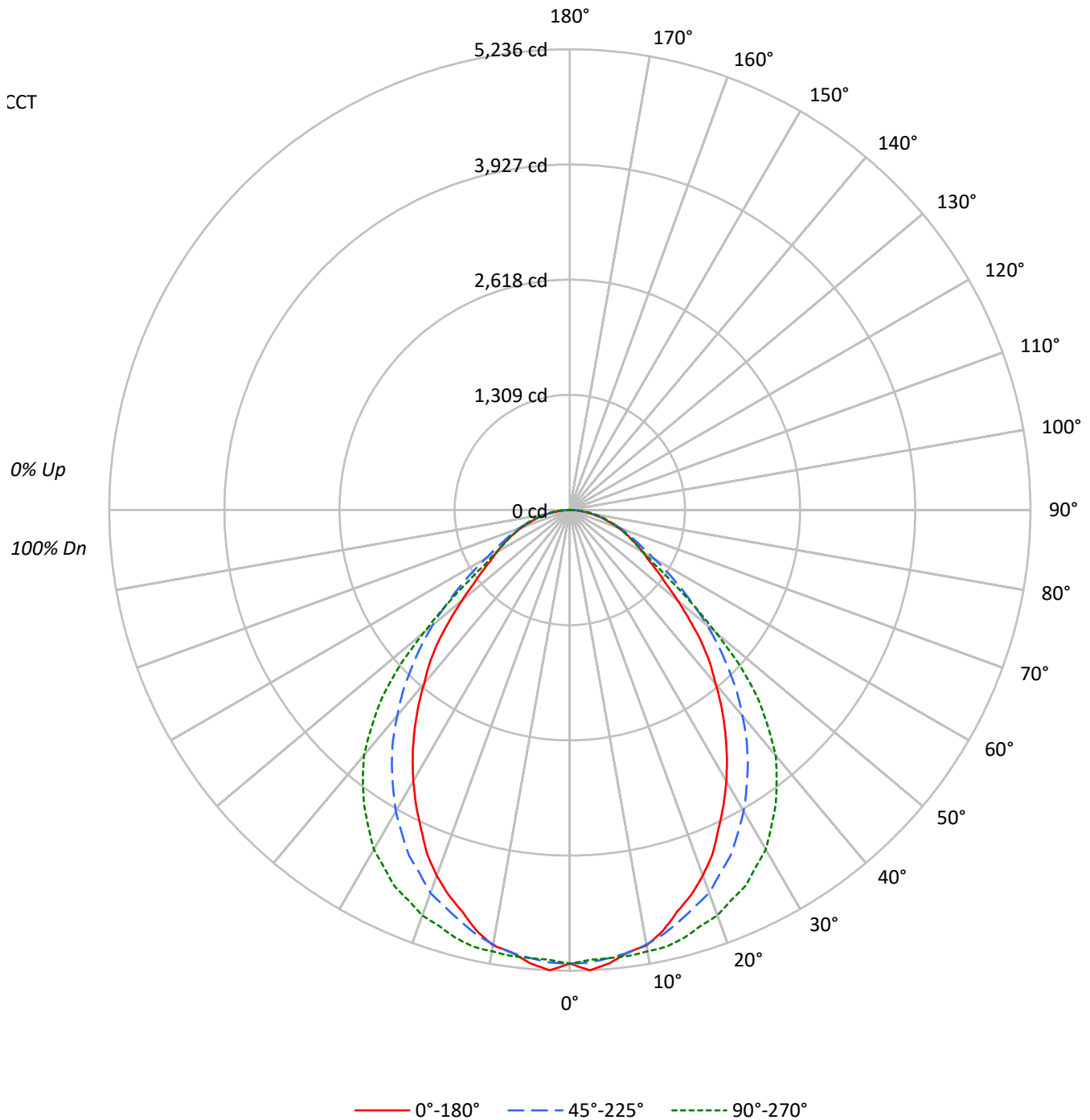
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10714.0 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23  
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 88.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 5.53  
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	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75	75	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	65	65	65
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57	57	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50	50	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	45	45	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	40
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	36	36	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33	33	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	30

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

	0°	45°	90°
0°	18291	18291	18291
5°	18418	18208	18208
10°	18100	18071	18351
15°	17351	17755	18483
20°	16692	17491	18513
25°	15659	16949	18471
30°	14575	16200	18254
35°	13342	15281	17673
40°	11945	14130	16862
45°	10600	12792	15160
50°	8819	11261	11956
55°	7512	9486	8689
60°	6810	7838	6868
65°	6414	6864	6392
70°	6035	6369	6230
75°	5623	6063	5954
80°	5149	5586	5752
85°	4474	4910	6440

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 15160 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	488.1	4.6
10°-20°	1373.4	12.8
20°-30°	1994.4	18.6
30°-40°	2220.9	20.7
40°-50°	1962.1	18.3
50°-60°	1287.5	12.0
60°-70°	788.4	7.4
70°-80°	458.8	4.3
80°-90°	140.5	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°	3855.8	36.0
0°-40°	6076.7	56.7
0°-60°	9326.3	87.0
0°-90°	10714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10714.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5155	5155	5155	5155	5155	
5°	5171	5174	5112	5163	5112	488
15°	4724	4777	4833	5024	5032	1333
25°	4000	4096	4329	4606	4718	1840
35°	3080	3246	3528	3900	4080	1921
45°	2112	2241	2549	2892	3021	1616
55°	1214	1300	1533	1520	1405	1101
65°	764	777	818	794	761	760
75°	410	416	442	450	434	435
85°	110	115	121	137	158	124
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5155.1	5155.1	5155.1	5155.1	5155.1
2.5°	5235.5	5171.2	5147.0	5171.2	5117.6
5°	5171.2	5173.9	5112.2	5163.1	5112.2
7.5°	5069.3	5104.2	5074.7	5152.4	5112.2
10°	5023.7	5026.4	5015.7	5096.1	5093.4
12.5°	4897.7	4905.8	4935.3	5055.9	5082.7
15°	4723.5	4777.1	4833.4	5023.7	5031.8
17.5°	4586.8	4651.1	4726.2	4929.9	4954.0
20°	4420.6	4447.4	4632.3	4811.9	4903.1
22.5°	4235.6	4286.5	4466.1	4707.4	4798.5
25°	3999.7	4096.2	4329.4	4605.5	4718.1
27.5°	3782.5	3895.1	4136.4	4444.7	4576.0
30°	3557.4	3686.0	3954.1	4257.0	4455.4
32.5°	3324.1	3485.0	3739.6	4088.1	4262.4
35°	3080.2	3246.4	3527.9	3900.5	4080.1
37.5°	2836.2	2997.1	3302.7	3702.1	3863.0
40°	2578.9	2737.0	3050.7	3455.5	3640.5
42.5°	2356.4	2493.1	2814.8	3160.6	3332.2
45°	2112.4	2241.1	2549.4	2892.5	3021.2
47.5°	1844.4	1994.5	2294.7	2576.2	2627.1
50°	1597.7	1753.2	2040.1	2203.6	2166.0
52.5°	1380.6	1511.9	1774.7	1844.4	1755.9
55°	1214.4	1300.2	1533.4	1520.0	1404.7
57.5°	1061.6	1115.2	1313.6	1238.5	1128.6
60°	959.7	983.8	1104.5	1034.8	967.8
62.5°	863.2	873.9	938.3	900.7	849.8
65°	764.0	777.4	817.6	793.5	761.3
67.5°	672.9	678.2	715.8	710.4	670.2
70°	581.7	589.8	613.9	624.6	600.5
72.5°	493.3	501.3	525.4	536.2	514.7
75°	410.2	415.5	442.3	450.4	434.3
77.5°	329.7	340.5	356.5	369.9	351.2
80°	252.0	257.4	273.4	289.5	281.5
82.5°	176.9	185.0	195.7	217.1	222.5
85°	109.9	115.3	120.6	136.7	158.2
87.5°	42.9	45.6	53.6	59.0	77.7
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	17.63	19.11	17.99	19.42	19.74	18.28	19.76	18.64	20.07	20.39
	3H	19.23	20.55	19.61	20.88	21.25	19.72	21.04	20.09	21.37	21.73
	4H	19.85	21.09	20.25	21.44	21.82	20.32	21.56	20.72	21.91	22.29
	6H	20.32	21.46	20.73	21.83	22.22	20.81	21.95	21.22	22.32	22.71
	8H	20.47	21.56	20.90	21.95	22.35	21.00	22.10	21.43	22.49	22.89
	12H	20.57	21.61	21.00	21.99	22.42	21.17	22.22	21.60	22.60	23.03
4H	2H	18.25	19.49	18.65	19.84	20.22	18.77	20.02	19.17	20.36	20.74
	3H	20.07	21.10	20.48	21.50	21.90	20.47	21.50	20.88	21.90	22.30
	4H	20.81	21.73	21.24	22.15	22.59	21.22	22.15	21.66	22.57	23.01
	6H	21.41	22.21	21.86	22.65	23.12	21.86	22.66	22.32	23.11	23.57
	8H	21.60	22.36	22.07	22.80	23.27	22.11	22.87	22.58	23.31	23.78
	12H	21.74	22.42	22.23	22.90	23.37	22.34	23.01	22.82	23.49	23.96
8H	4H	21.13	21.88	21.59	22.32	22.79	21.49	22.25	21.96	22.69	23.16
	6H	21.85	22.47	22.35	22.97	23.44	22.27	22.89	22.77	23.38	23.86
	8H	22.12	22.68	22.64	23.19	23.68	22.61	23.17	23.13	23.68	24.17
	12H	22.34	22.84	22.85	23.33	23.90	22.93	23.43	23.44	23.92	24.49
12H	4H	21.16	21.83	21.64	22.31	22.78	21.51	22.19	22.00	22.66	23.14
	6H	21.92	22.48	22.43	22.99	23.48	22.31	22.88	22.83	23.39	23.87
	8H	22.25	22.75	22.76	23.24	23.80	22.72	23.22	23.23	23.71	24.27