

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: P894534

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

Issue Date: 11/11/2024

**Test Information**

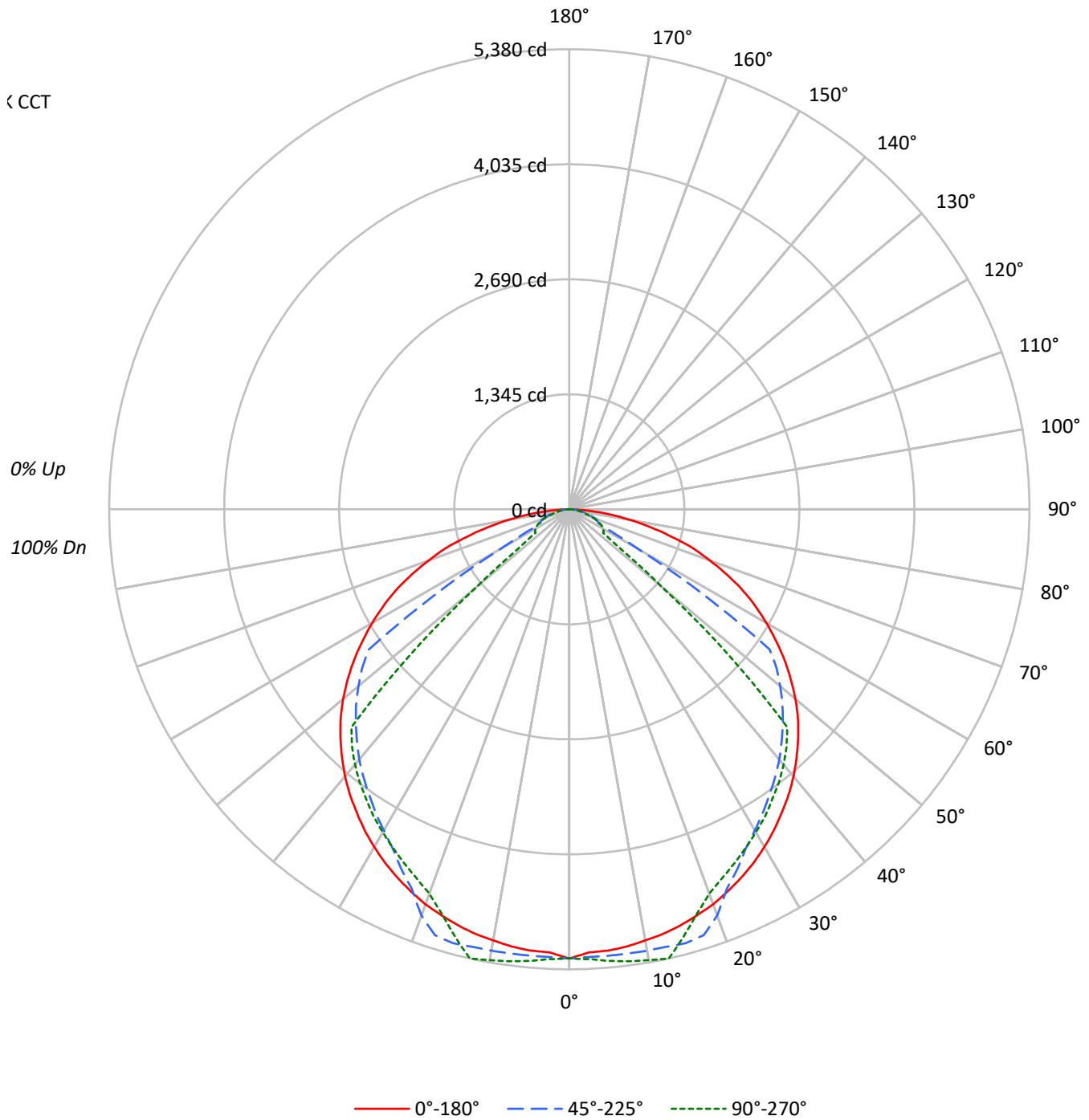
Test Method: LM-79-2019  
Report Number: P894534  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-12SL-RFLW-UNV-L835  
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 3500K  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12812.0 lumens  
Efficiency: N/A  
Efficacy: 144.3 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): 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

TEST NUMBER: P894534  
CATALOG NUMBER: 8TMB-12SL-RFLW-UNV-L835

### Luminous Intensity Polar Plot





TEST NUMBER: P894534

CATALOG NUMBER: 8TMB-12SL-RFLW-UNV-L835

**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°	34016	34016	34016
5°	33676	34067	34459
10°	33669	34461	35214
15°	33762	35215	34650
20°	33874	34829	32960
25°	33960	33185	32626
30°	34098	32432	32612
35°	34239	32239	32716
40°	34474	32285	32947
45°	34644	32327	32990
50°	34773	32407	14262
55°	34685	32304	5440
60°	34484	12327	5929
65°	34244	5723	6092
70°	33076	6159	5703
75°	30896	5877	4974
80°	27181	5168	4270
85°	21487	4473	3581

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 34773 cd/sqm



TEST NUMBER: P894534  
 CATALOG NUMBER: 8TMB-12SL-RFLW-UNV-L835

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	501.7	3.9
10°-20°	1456.7	11.4
20°-30°	2173.4	17.0
30°-40°	2634.4	20.6
40°-50°	2697.5	21.1
50°-60°	1793.9	14.0
60°-70°	1022.4	8.0
70°-80°	429.5	3.4
80°-90°	102.4	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°	4131.8	32.2
0°-40°	6766.2	52.8
0°-60°	11257.6	87.9
0°-90°	12812.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12812.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5253	5253	5253	5253	5253	
5°	5181	5283	5241	5253	5301	493
15°	5036	5175	5253	5235	5169	1422
25°	4753	4982	4645	4542	4566	2193
35°	4331	4410	4078	4096	4139	2713
45°	3783	3554	3530	3572	3602	2919
55°	3072	2813	2861	626	482	2744
65°	2235	2000	374	398	398	2199
75°	1235	259	235	205	199	1311
85°	289	72	60	48	48	347
90°	0	0	0	0	0	



TEST NUMBER: P894534

CATALOG NUMBER: 8TMB-12SL-RFLW-UNV-L835

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5253.0	5253.0	5253.0	5253.0	5253.0
2.5°	5186.8	5295.2	5241.0	5247.0	5265.1
5°	5180.7	5283.1	5241.0	5253.0	5301.2
7.5°	5156.6	5265.1	5241.0	5277.1	5331.3
10°	5120.5	5247.0	5241.0	5301.2	5355.4
12.5°	5084.3	5210.8	5241.0	5331.3	5379.5
15°	5036.2	5174.7	5253.0	5234.9	5168.7
17.5°	4975.9	5138.6	5222.9	4963.9	4957.8
20°	4915.7	5090.4	5054.2	4807.2	4783.1
22.5°	4837.4	5042.2	4807.2	4638.6	4668.7
25°	4753.0	4981.9	4644.6	4542.2	4566.3
27.5°	4662.7	4921.7	4469.9	4433.7	4463.9
30°	4560.2	4837.4	4337.4	4325.3	4361.5
32.5°	4451.8	4674.7	4210.8	4216.9	4259.0
35°	4331.3	4409.6	4078.3	4096.4	4138.6
37.5°	4210.8	4162.7	3951.8	3981.9	4024.1
40°	4078.3	3969.9	3819.3	3849.4	3897.6
42.5°	3933.7	3765.1	3674.7	3716.9	3759.0
45°	3783.1	3554.2	3530.1	3572.3	3602.4
47.5°	3626.5	3373.5	3379.5	3409.6	2554.2
50°	3451.8	3192.8	3216.9	2228.9	1415.7
52.5°	3265.1	3006.0	3054.2	1241.0	716.9
55°	3072.3	2813.3	2861.4	626.5	481.9
57.5°	2867.5	2620.5	1867.5	451.8	475.9
60°	2662.7	2415.7	951.8	445.8	457.8
62.5°	2451.8	2210.8	451.8	427.7	433.7
65°	2234.9	2000.0	373.5	397.6	397.6
67.5°	1994.0	1777.1	355.4	355.4	349.4
70°	1747.0	1475.9	325.3	307.2	301.2
72.5°	1518.1	566.3	283.1	253.0	247.0
75°	1234.9	259.0	234.9	204.8	198.8
77.5°	981.9	216.9	186.7	162.7	156.6
80°	728.9	168.7	138.6	120.5	114.5
82.5°	506.0	114.5	96.4	78.3	78.3
85°	289.2	72.3	60.2	48.2	48.2
87.5°	114.5	36.1	30.1	18.1	18.1
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P894534  
 CATALOG NUMBER: 8TMB-12SL-RFLW-UNV-L835

**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	25.18	26.70	25.54	27.01	27.33	12.94	14.47	13.31	14.78	15.09
	3H	27.20	28.56	27.58	28.89	29.25	15.26	16.62	15.64	16.95	17.31
	4H	27.66	28.93	28.06	29.28	29.66	15.97	17.24	16.37	17.59	17.97
	6H	28.07	29.24	28.48	29.61	30.00	16.46	17.63	16.87	18.00	18.39
	8H	28.22	29.33	28.64	29.72	30.12	16.59	17.71	17.02	18.10	18.50
	12H	28.32	29.38	28.75	29.77	30.19	16.68	17.75	17.11	18.13	18.56
4H	2H	25.02	26.29	25.42	26.64	27.02	13.74	15.01	14.14	15.36	15.74
	3H	27.22	28.27	27.63	28.67	29.07	16.25	17.30	16.66	17.70	18.10
	4H	27.67	28.61	28.10	29.03	29.47	17.07	18.01	17.51	18.43	18.87
	6H	28.14	28.95	28.60	29.39	29.86	17.67	18.48	18.12	18.92	19.38
	8H	28.33	29.09	28.79	29.53	30.00	17.84	18.60	18.30	19.04	19.51
	12H	28.48	29.16	28.96	29.64	30.11	17.95	18.63	18.44	19.11	19.58
8H	4H	27.59	28.35	28.05	28.80	29.26	17.91	18.67	18.38	19.12	19.59
	6H	28.05	28.68	28.55	29.17	29.65	18.54	19.16	19.03	19.66	20.13
	8H	28.25	28.81	28.76	29.32	29.81	18.74	19.30	19.25	19.81	20.30
	12H	28.43	28.94	28.94	29.43	29.99	18.89	19.39	19.40	19.89	20.45
12H	4H	27.56	28.24	28.04	28.72	29.19	17.98	18.66	18.47	19.14	19.61
	6H	28.00	28.57	28.52	29.08	29.57	18.63	19.19	19.14	19.70	20.19
	8H	28.23	28.73	28.74	29.22	29.78	18.88	19.38	19.39	19.88	20.44