

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: P894528

Luminaire Tested: 8TMB-12SL-LVRF-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894528
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-L850
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 5000K (C)
Light Source: -
Ballast/Driver: -

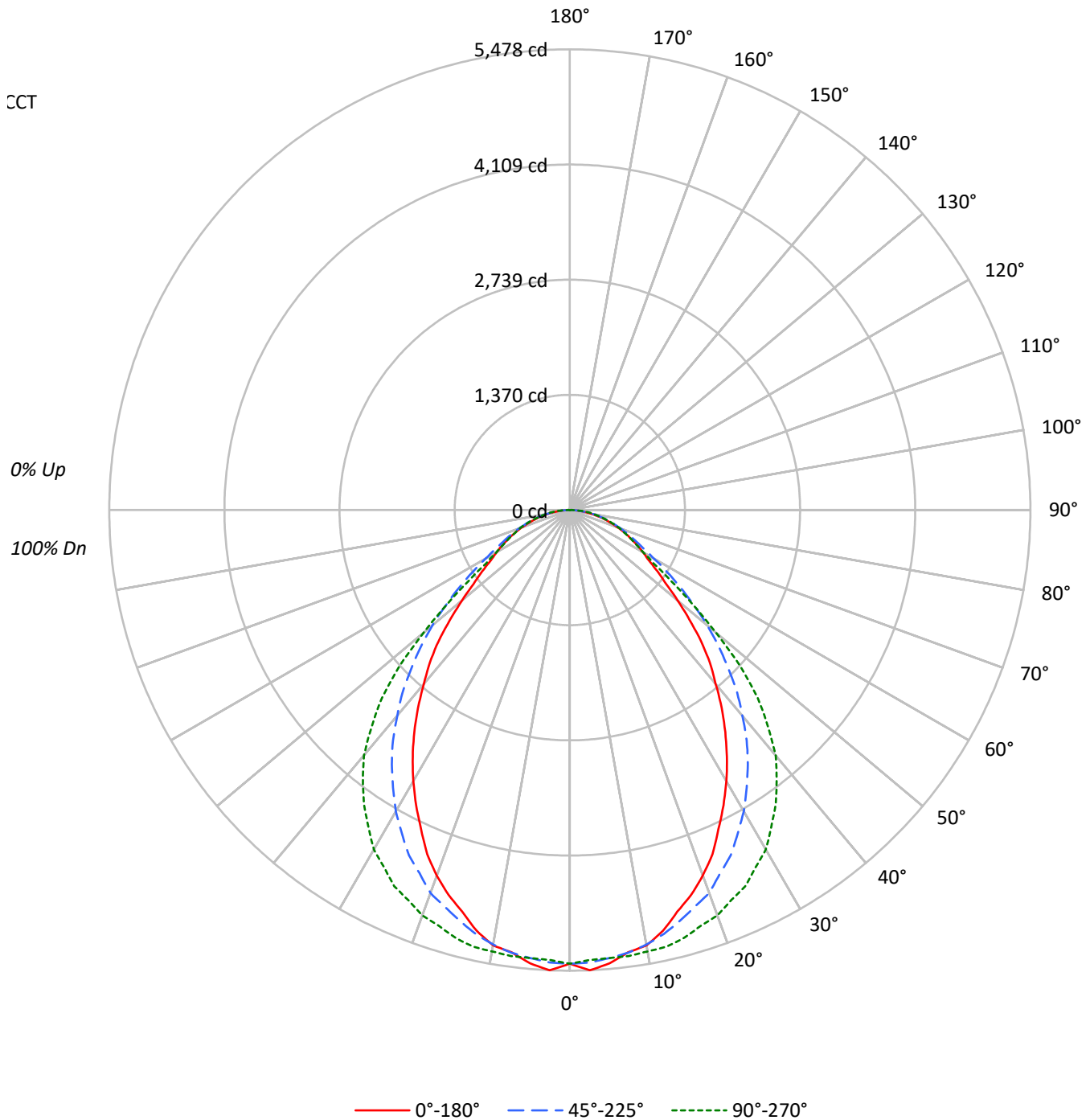
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11210.0 lumens
Efficiency: N/A
Efficacy: 126.2 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_{in}): 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: P894528
CATALOG NUMBER: 8TMB-12SL-LVRF-UNV-L850

Luminous Intensity Polar Plot





TEST NUMBER: P894528

CATALOG NUMBER: 8TMB-12SL-LVRF-UNV-L850

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	70	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	60	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	56	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	44	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19138	19138	19138
5°	19271	19051	19051
10°	18938	18908	19200
15°	18154	18577	19339
20°	17464	18301	19370
25°	16383	17734	19326
30°	15249	16950	19099
35°	13959	15988	18491
40°	12498	14784	17642
45°	11090	13385	15862
50°	9228	11782	12510
55°	7860	9925	9092
60°	7125	8200	7186
65°	6711	7182	6688
70°	6315	6663	6518
75°	5883	6344	6229
80°	5388	5846	6017
85°	4682	5138	6738

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 15862 cd/sqm



TEST NUMBER: P894528
 CATALOG NUMBER: 8TMB-12SL-LVRF-UNV-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.7	4.6
10°-20°	1437.0	12.8
20°-30°	2086.7	18.6
30°-40°	2323.7	20.7
40°-50°	2052.9	18.3
50°-60°	1347.1	12.0
60°-70°	824.9	7.4
70°-80°	480.0	4.3
80°-90°	147.0	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°	4034.4	36.0
0°-40°	6358.1	56.7
0°-60°	9758.1	87.0
0°-90°	11210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11210.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5394	5394	5394	5394	5394	
5°	5411	5413	5349	5402	5349	510
15°	4942	4998	5057	5256	5265	1394
25°	4185	4286	4530	4819	4936	1926
35°	3223	3397	3691	4081	4269	2010
45°	2210	2345	2667	3026	3161	1691
55°	1271	1360	1604	1590	1470	1152
65°	799	813	856	830	797	795
75°	429	435	463	471	454	455
85°	115	121	126	143	166	130
90°	0	0	0	0	0	



TEST NUMBER: P894528

CATALOG NUMBER: 8TMB-12SL-LVRF-UNV-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5393.7	5393.7	5393.7	5393.7	5393.7
2.5°	5477.9	5410.6	5385.3	5410.6	5354.5
5°	5410.6	5413.4	5348.9	5402.2	5348.9
7.5°	5304.0	5340.4	5309.6	5390.9	5348.9
10°	5256.3	5259.1	5247.9	5332.0	5329.2
12.5°	5124.5	5132.9	5163.7	5290.0	5318.0
15°	4942.2	4998.3	5057.2	5256.3	5264.7
17.5°	4799.1	4866.4	4945.0	5158.1	5183.4
20°	4625.2	4653.3	4846.8	5034.7	5130.1
22.5°	4431.7	4485.0	4672.9	4925.3	5020.7
25°	4184.8	4285.8	4529.8	4818.7	4936.5
27.5°	3957.7	4075.5	4327.9	4650.5	4787.9
30°	3722.0	3856.7	4137.2	4454.1	4661.7
32.5°	3478.0	3646.3	3912.8	4277.4	4459.7
35°	3222.8	3396.7	3691.2	4081.1	4269.0
37.5°	2967.5	3135.8	3455.6	3873.5	4041.8
40°	2698.3	2863.8	3191.9	3615.5	3809.0
42.5°	2465.5	2608.5	2945.1	3306.9	3486.4
45°	2210.2	2344.9	2667.4	3026.4	3161.1
47.5°	1929.7	2086.8	2401.0	2695.5	2748.8
50°	1671.7	1834.4	2134.5	2305.6	2266.3
52.5°	1444.5	1581.9	1856.8	1929.7	1837.2
55°	1270.6	1360.4	1604.4	1590.4	1469.7
57.5°	1110.7	1166.8	1374.4	1295.8	1180.8
60°	1004.1	1029.4	1155.6	1082.7	1012.6
62.5°	903.2	914.4	981.7	942.4	889.1
65°	799.4	813.4	855.5	830.2	796.6
67.5°	704.0	709.6	748.9	743.3	701.2
70°	608.7	617.1	642.3	653.5	628.3
72.5°	516.1	524.5	549.8	561.0	538.5
75°	429.1	434.8	462.8	471.2	454.4
77.5°	345.0	356.2	373.0	387.1	367.4
80°	263.7	269.3	286.1	302.9	294.5
82.5°	185.1	193.5	204.8	227.2	232.8
85°	115.0	120.6	126.2	143.0	165.5
87.5°	44.9	47.7	56.1	61.7	81.3
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P894528
 CATALOG NUMBER: 8TMB-12SL-LVRF-UNV-L850

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	17.78	19.27	18.15	19.58	19.89	18.44	19.92	18.80	20.23	20.55
	3H	19.39	20.71	19.76	21.04	21.40	19.87	21.20	20.25	21.53	21.89
	4H	20.00	21.24	20.40	21.59	21.97	20.48	21.72	20.88	22.07	22.45
	6H	20.47	21.62	20.89	21.99	22.38	20.96	22.11	21.38	22.48	22.87
	8H	20.63	21.72	21.05	22.11	22.51	21.16	22.25	21.59	22.64	23.04
	12H	20.73	21.77	21.16	22.15	22.58	21.33	22.37	21.76	22.76	23.18
4H	2H	18.41	19.65	18.81	20.00	20.38	18.93	20.17	19.33	20.52	20.90
	3H	20.23	21.26	20.64	21.66	22.06	20.63	21.66	21.04	22.06	22.46
	4H	20.97	21.89	21.40	22.31	22.75	21.38	22.31	21.81	22.72	23.16
	6H	21.56	22.37	22.02	22.81	23.27	22.02	22.82	22.47	23.26	23.73
	8H	21.76	22.51	22.22	22.96	23.43	22.27	23.02	22.74	23.47	23.94
	12H	21.90	22.57	22.38	23.05	23.52	22.50	23.17	22.98	23.65	24.12
8H	4H	21.28	22.04	21.75	22.48	22.95	21.65	22.40	22.12	22.85	23.32
	6H	22.01	22.63	22.51	23.12	23.60	22.43	23.05	22.92	23.54	24.02
	8H	22.28	22.84	22.80	23.35	23.84	22.77	23.33	23.29	23.84	24.33
	12H	22.50	23.00	23.01	23.49	24.05	23.09	23.59	23.60	24.08	24.64
12H	4H	21.32	21.99	21.80	22.47	22.94	21.67	22.34	22.15	22.82	23.29
	6H	22.07	22.63	22.59	23.14	23.63	22.47	23.03	22.99	23.54	24.03
	8H	22.41	22.90	22.92	23.39	23.96	22.88	23.37	23.39	23.87	24.43