

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: P894532

Luminaire Tested: 8TMB-12SL-LVRF-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894532
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-L950
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 5000K (C)
Light Source: -
Ballast/Driver: -

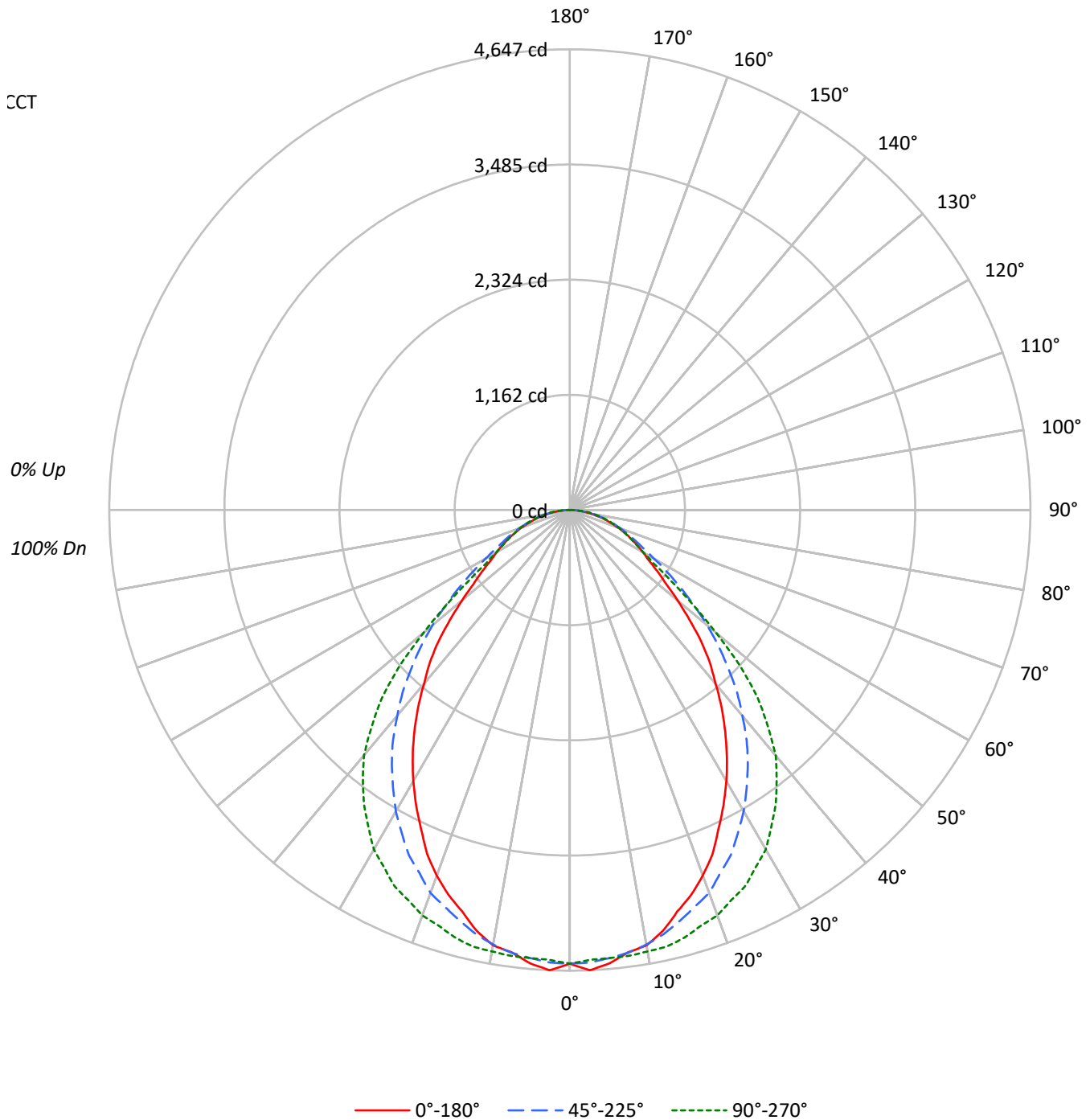
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9509.0 lumens
Efficiency: N/A
Efficacy: 107.1 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 (Ain): 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	102	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75	75	
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	65	65	
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57	57	
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50	50	
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	45	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	36	36	
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16234	16234	16234
5°	16347	16160	16160
10°	16064	16039	16287
15°	15399	15758	16404
20°	14814	15524	16431
25°	13897	15043	16394
30°	12936	14378	16201
35°	11841	13562	15685
40°	10601	12541	14965
45°	9407	11354	13455
50°	7827	9994	10611
55°	6667	8419	7712
60°	6045	6956	6095
65°	5693	6093	5673
70°	5356	5652	5529
75°	4990	5382	5283
80°	4569	4959	5104
85°	3969	4360	5716

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13455 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.2	4.6
10°-20°	1218.9	12.8
20°-30°	1770.1	18.6
30°-40°	1971.1	20.7
40°-50°	1741.4	18.3
50°-60°	1142.7	12.0
60°-70°	699.7	7.4
70°-80°	407.2	4.3
80°-90°	124.7	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°	3422.2	36.0
0°-40°	5393.3	56.7
0°-60°	8277.4	87.0
0°-90°	9509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9509.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4575	4575	4575	4575	4575	
5°	4590	4592	4537	4582	4537	433
15°	4192	4240	4290	4459	4466	1183
25°	3550	3636	3842	4088	4188	1633
35°	2734	2881	3131	3462	3621	1705
45°	1875	1989	2263	2567	2681	1434
55°	1078	1154	1361	1349	1247	978
65°	678	690	726	704	676	674
75°	364	369	393	400	385	386
85°	98	102	107	121	140	110
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4575.3	4575.3	4575.3	4575.3	4575.3
2.5°	4646.7	4589.6	4568.2	4589.6	4542.0
5°	4589.6	4591.9	4537.2	4582.4	4537.2
7.5°	4499.2	4530.1	4503.9	4572.9	4537.2
10°	4458.7	4461.1	4451.6	4523.0	4520.6
12.5°	4346.9	4354.0	4380.2	4487.3	4511.1
15°	4192.2	4239.8	4289.8	4458.7	4465.8
17.5°	4070.9	4128.0	4194.6	4375.4	4396.9
20°	3923.4	3947.2	4111.3	4270.8	4351.6
22.5°	3759.2	3804.4	3963.8	4178.0	4258.9
25°	3549.8	3635.5	3842.5	4087.5	4187.5
27.5°	3357.1	3457.0	3671.2	3944.8	4061.4
30°	3157.3	3271.5	3509.4	3778.2	3954.3
32.5°	2950.3	3093.0	3319.1	3628.4	3783.0
35°	2733.8	2881.3	3131.1	3461.8	3621.2
37.5°	2517.2	2660.0	2931.2	3285.7	3428.5
40°	2288.8	2429.2	2707.6	3066.9	3231.0
42.5°	2091.4	2212.7	2498.2	2805.1	2957.4
45°	1874.8	1989.1	2262.7	2567.2	2681.4
47.5°	1636.9	1770.2	2036.6	2286.5	2331.7
50°	1418.0	1556.0	1810.6	1955.7	1922.4
52.5°	1225.3	1341.9	1575.1	1636.9	1558.4
55°	1077.8	1153.9	1360.9	1349.0	1246.7
57.5°	942.2	989.8	1165.8	1099.2	1001.7
60°	851.8	873.2	980.3	918.4	858.9
62.5°	766.1	775.6	832.7	799.4	754.2
65°	678.1	690.0	725.7	704.3	675.7
67.5°	597.2	601.9	635.3	630.5	594.8
70°	516.3	523.4	544.8	554.4	533.0
72.5°	437.8	444.9	466.3	475.8	456.8
75°	364.0	368.8	392.6	399.7	385.4
77.5°	292.6	302.2	316.4	328.3	311.7
80°	223.6	228.4	242.7	257.0	249.8
82.5°	157.0	164.2	173.7	192.7	197.5
85°	97.5	102.3	107.1	121.3	140.4
87.5°	38.1	40.4	47.6	52.3	69.0
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	17.21	18.69	17.58	19.01	19.32	17.86	19.35	18.23	19.66	19.97
	3H	18.81	20.14	19.19	20.47	20.83	19.30	20.63	19.68	20.95	21.32
	4H	19.43	20.67	19.83	21.02	21.40	19.91	21.15	20.31	21.50	21.88
	6H	19.90	21.05	20.31	21.42	21.81	20.39	21.54	20.81	21.91	22.30
	8H	20.05	21.14	20.48	21.53	21.94	20.59	21.68	21.02	22.07	22.47
	12H	20.15	21.20	20.58	21.58	22.01	20.76	21.80	21.19	22.18	22.61
4H	2H	17.84	19.08	18.24	19.43	19.81	18.36	19.60	18.76	19.95	20.33
	3H	19.66	20.68	20.07	21.08	21.49	20.06	21.08	20.47	21.49	21.89
	4H	20.39	21.32	20.83	21.74	22.18	20.81	21.73	21.24	22.15	22.59
	6H	20.99	21.80	21.45	22.24	22.70	21.44	22.25	21.90	22.69	23.15
	8H	21.19	21.94	21.65	22.39	22.85	21.70	22.45	22.16	22.90	23.36
	12H	21.33	22.00	21.81	22.48	22.95	21.92	22.60	22.41	23.07	23.55
8H	4H	20.71	21.46	21.18	21.91	22.38	21.08	21.83	21.54	22.28	22.74
	6H	21.44	22.06	21.93	22.55	23.03	21.85	22.48	22.35	22.97	23.45
	8H	21.71	22.27	22.22	22.78	23.27	22.20	22.76	22.71	23.27	23.76
	12H	21.93	22.42	22.44	22.92	23.48	22.52	23.01	23.03	23.51	24.07
12H	4H	20.75	21.42	21.23	21.90	22.37	21.10	21.77	21.58	22.25	22.72
	6H	21.50	22.06	22.02	22.57	23.06	21.90	22.46	22.41	22.97	23.46
	8H	21.83	22.33	22.34	22.82	23.39	22.31	22.80	22.82	23.29	23.86