

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: P894524

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894524
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-12SL-LVRA-UNV-L950
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

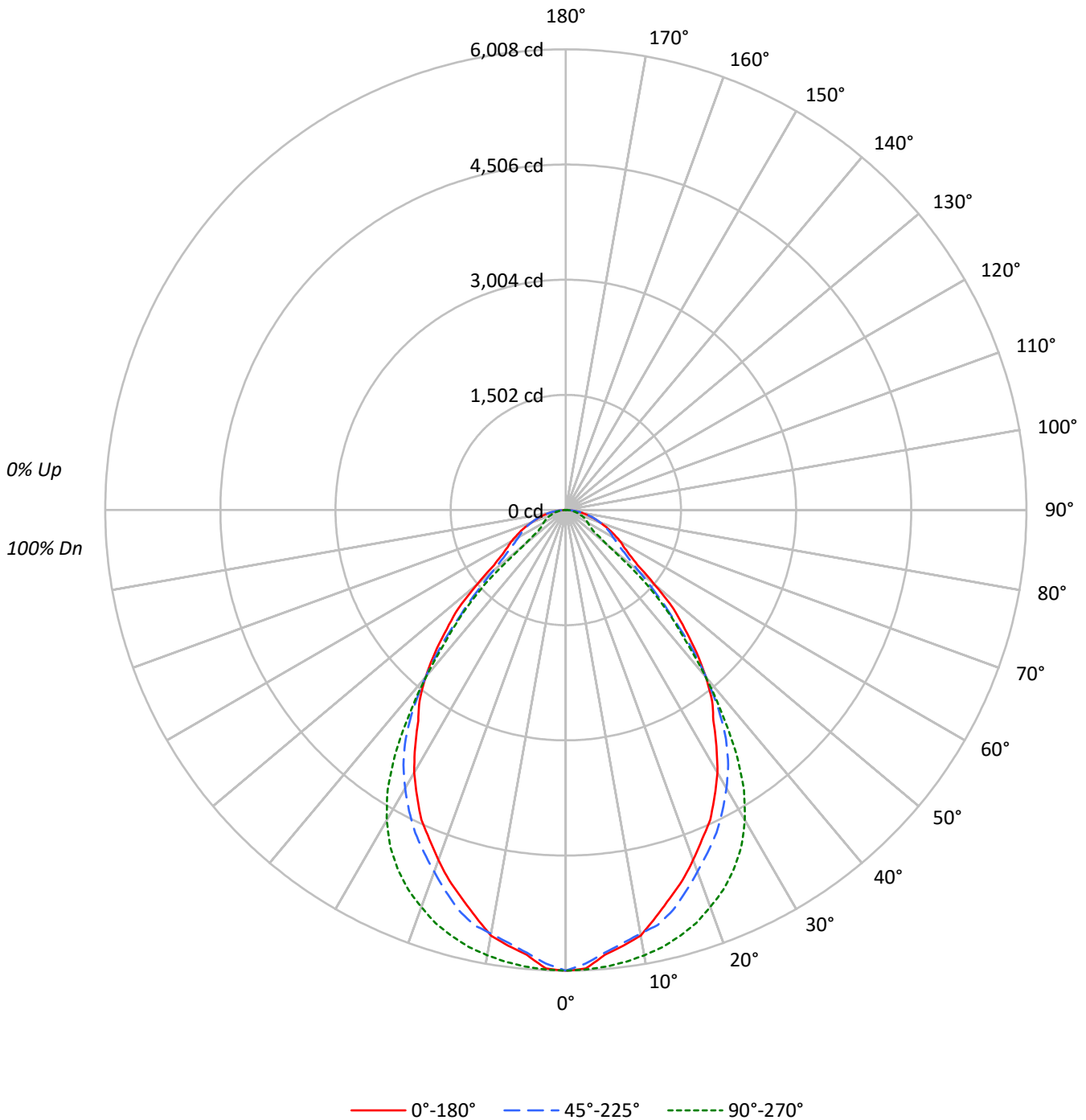
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9750.0 lumens
Efficiency: N/A
Efficacy: 109.8 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): 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	100	100	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78	78	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69	69	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62	62	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55	55	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50	50	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45	45	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41	41	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21315	21315	21315
5°	20741	20647	21292
10°	20300	20211	21243
15°	19252	19844	21123
20°	18340	18959	20801
25°	17445	18191	20270
30°	16208	17172	19138
35°	14533	15780	16787
40°	13167	13195	13124
45°	11009	9751	9510
50°	8316	6863	3889
55°	6255	5488	2452
60°	5813	5054	2362
65°	5408	5044	2366
70°	4947	4947	2329
75°	4691	4819	2250
80°	4334	4557	2309
85°	3782	3969	2520

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 11266 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.9	5.7
10°-20°	1529.1	15.7
20°-30°	2168.2	22.2
30°-40°	2233.7	22.9
40°-50°	1560.2	16.0
50°-60°	748.6	7.7
60°-70°	525.2	5.4
70°-80°	328.4	3.4
80°-90°	101.6	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°	4252.2	43.6
0°-40°	6486.0	66.5
0°-60°	8794.8	90.2
0°-90°	9750.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9750.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6008	6008	6008	6008	6008	
5°	5823	5816	5797	5949	5978	551
15°	5241	5280	5402	5557	5750	1476
25°	4456	4501	4647	4961	5178	2038
35°	3355	3447	3643	3719	3876	2114
45°	2194	2245	1943	1844	1895	1690
55°	1011	962	887	568	396	947
65°	644	602	601	457	282	638
75°	342	338	352	304	164	360
85°	93	93	98	96	62	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6007.5	6007.5	6007.5	6007.5	6007.5
2.5°	5984.3	5965.7	5920.8	6002.9	5996.7
5°	5823.3	5815.5	5797.0	5948.7	5978.1
7.5°	5731.9	5716.4	5694.8	5862.0	5944.1
10°	5634.4	5653.0	5609.6	5762.9	5896.1
12.5°	5433.1	5482.7	5541.5	5660.7	5837.2
15°	5241.1	5279.8	5402.1	5557.0	5750.5
17.5°	5061.5	5106.4	5211.7	5443.9	5649.9
20°	4857.1	4919.1	5021.2	5318.5	5509.0
22.5°	4646.6	4703.8	4832.4	5151.3	5363.4
25°	4456.1	4501.0	4646.6	4960.9	5177.6
27.5°	4203.7	4287.3	4425.1	4728.6	4956.2
30°	3956.0	4027.2	4191.3	4446.8	4671.3
32.5°	3657.2	3760.9	3942.1	4137.1	4324.5
35°	3355.2	3446.6	3643.2	3719.1	3875.5
37.5°	3135.4	3160.1	3271.6	3262.3	3350.6
40°	2842.7	2892.3	2848.9	2732.8	2833.5
42.5°	2526.9	2585.7	2410.8	2276.1	2311.7
45°	2194.0	2245.1	1943.2	1844.1	1895.2
47.5°	1906.0	1901.4	1566.9	1500.3	1429.1
50°	1506.5	1556.1	1243.3	1119.4	704.5
52.5°	1176.7	1195.3	1025.0	715.3	463.0
55°	1011.1	961.5	887.2	568.2	396.4
57.5°	898.0	836.1	786.6	528.0	362.3
60°	819.1	749.4	712.2	501.7	332.9
62.5°	729.3	675.1	661.1	478.4	306.6
65°	644.1	602.3	600.8	456.8	281.8
67.5°	558.9	535.7	541.9	430.4	253.9
70°	476.9	472.2	476.9	396.4	224.5
72.5°	407.2	402.6	415.0	353.0	192.0
75°	342.2	337.5	351.5	303.5	164.1
77.5°	272.5	275.6	284.9	252.4	137.8
80°	212.1	212.1	223.0	198.2	113.0
82.5°	151.7	153.3	159.5	145.5	88.3
85°	92.9	92.9	97.5	96.0	61.9
87.5°	31.0	35.6	41.8	44.9	31.0
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	16.28	17.63	16.64	17.94	18.26	12.61	13.96	12.97	14.27	14.59
	3H	18.01	19.22	18.39	19.55	19.92	14.58	15.79	14.96	16.12	16.49
	4H	18.69	19.81	19.09	20.16	20.55	15.29	16.42	15.69	16.77	17.15
	6H	19.19	20.23	19.61	20.60	20.99	15.81	16.85	16.23	17.22	17.61
	8H	19.36	20.35	19.79	20.74	21.14	16.00	16.98	16.43	17.37	17.78
	12H	19.47	20.42	19.91	20.80	21.23	16.14	17.08	16.57	17.46	17.89
4H	2H	16.81	17.93	17.21	18.28	18.67	14.23	15.36	14.63	15.71	16.09
	3H	18.78	19.71	19.20	20.12	20.52	16.41	17.34	16.82	17.74	18.15
	4H	19.59	20.42	20.02	20.84	21.28	17.29	18.12	17.72	18.54	18.98
	6H	20.23	20.95	20.69	21.40	21.86	17.93	18.66	18.39	19.10	19.57
	8H	20.45	21.13	20.92	21.57	22.04	18.14	18.82	18.61	19.26	19.73
	12H	20.60	21.20	21.09	21.68	22.16	18.30	18.90	18.78	19.38	19.85
8H	4H	19.87	20.55	20.34	20.99	21.46	17.94	18.61	18.41	19.06	19.53
	6H	20.65	21.21	21.15	21.70	22.18	18.80	19.35	19.30	19.85	20.33
	8H	20.96	21.45	21.48	21.97	22.46	19.13	19.63	19.65	20.14	20.63
	12H	21.19	21.63	21.70	22.12	22.69	19.39	19.83	19.90	20.32	20.89
12H	4H	19.89	20.49	20.37	20.97	21.44	18.01	18.61	18.50	19.09	19.57
	6H	20.71	21.21	21.23	21.72	22.21	18.94	19.44	19.46	19.95	20.44
	8H	21.07	21.51	21.58	22.00	22.57	19.35	19.79	19.86	20.28	20.85