

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: P894515

Luminaire Tested: 8TMB-12SL-LVR-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-12SL-LVR-UNV-L940
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

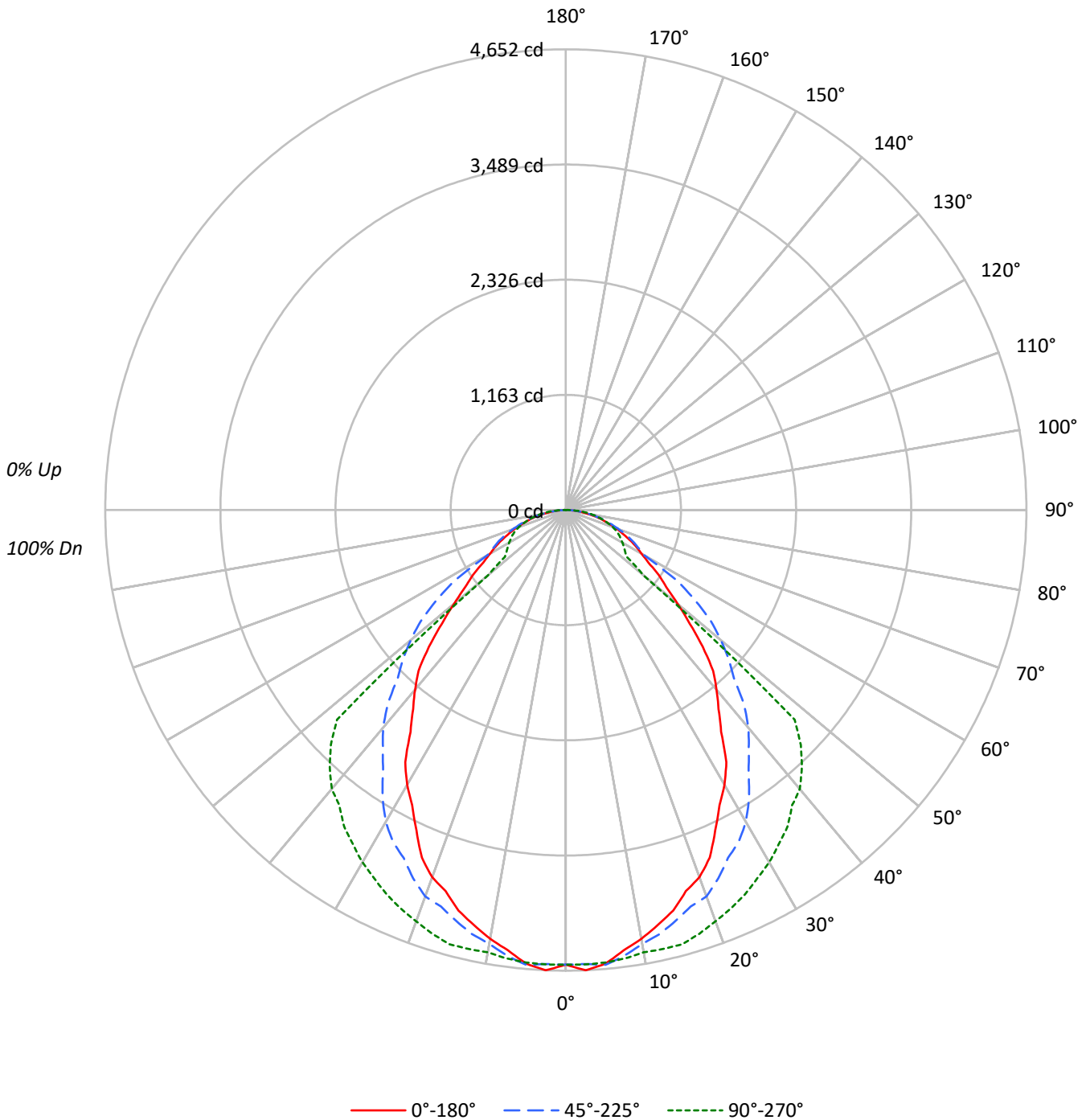
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9797.0 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27
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	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	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	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	57	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	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16289	16289	16289
5°	16376	16418	16335
10°	15839	16025	16338
15°	15382	15770	16674
20°	14900	15679	16688
25°	13980	15174	16761
30°	13132	14899	16830
35°	11842	13934	16910
40°	10968	13293	17029
45°	9812	12048	16836
50°	8141	11286	5656
55°	7093	9906	4525
60°	6272	6455	4692
65°	5964	6280	4980
70°	5595	5935	5254
75°	5207	5593	5400
80°	4742	5270	5654
85°	4201	4486	6111

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 16836 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.4	4.4
10°-20°	1225.0	12.5
20°-30°	1802.0	18.4
30°-40°	2060.8	21.0
40°-50°	1951.3	19.9
50°-60°	1075.1	11.0
60°-70°	690.3	7.0
70°-80°	426.0	4.3
80°-90°	131.1	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°	3462.4	35.3
0°-40°	5523.2	56.4
0°-60°	8549.6	87.3
0°-90°	9797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9797.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4591	4591	4591	4591	4591	
5°	4598	4635	4610	4610	4586	431
15°	4188	4239	4293	4518	4539	1176
25°	3571	3730	3876	4129	4281	1645
35°	2734	2968	3217	3684	3904	1728
45°	1956	2141	2401	3081	3355	1496
55°	1147	1203	1601	825	732	1025
65°	710	734	748	666	593	703
75°	380	387	408	429	394	404
85°	103	103	110	127	150	115
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4590.9	4590.9	4590.9	4590.9	4590.9
2.5°	4651.9	4663.6	4588.5	4586.2	4593.2
5°	4597.9	4635.4	4609.6	4609.6	4586.2
7.5°	4483.0	4546.3	4539.3	4593.2	4567.4
10°	4396.3	4447.9	4447.9	4588.5	4534.6
12.5°	4293.1	4351.7	4384.6	4532.3	4539.3
15°	4187.6	4239.2	4293.1	4518.2	4539.3
17.5°	4035.2	4129.0	4197.0	4417.4	4485.4
20°	3946.1	4002.4	4152.4	4330.6	4419.7
22.5°	3798.4	3880.5	4025.8	4225.1	4356.4
25°	3571.0	3730.4	3875.8	4129.0	4281.4
27.5°	3359.9	3479.5	3779.6	4046.9	4192.3
30°	3205.2	3299.0	3636.6	3927.3	4107.9
32.5°	3017.6	3170.0	3444.3	3810.1	4002.4
35°	2733.9	2968.4	3216.9	3683.5	3903.9
37.5°	2534.6	2696.4	3034.0	3552.2	3756.2
40°	2368.1	2515.8	2869.9	3388.1	3676.5
42.5°	2201.7	2321.2	2663.6	3266.1	3528.7
45°	1955.5	2140.7	2401.0	3080.9	3355.2
47.5°	1697.6	1894.5	2229.8	2923.8	3134.8
50°	1474.8	1631.9	2044.6	2612.0	1024.6
52.5°	1280.2	1425.6	1847.6	944.9	773.7
55°	1146.6	1202.8	1601.4	825.3	731.5
57.5°	987.1	1078.6	1343.5	785.5	694.0
60°	883.9	923.8	909.7	745.6	661.2
62.5°	801.9	830.0	825.3	705.7	623.7
65°	710.4	733.9	748.0	665.9	593.2
67.5°	619.0	640.1	661.2	616.7	551.0
70°	539.3	553.3	572.1	558.0	506.5
72.5°	457.2	473.6	485.3	497.1	447.8
75°	379.8	386.9	408.0	429.1	393.9
77.5°	309.5	316.5	330.6	354.0	335.3
80°	232.1	239.2	257.9	276.7	276.7
82.5°	164.1	168.8	180.5	206.3	218.1
85°	103.2	103.2	110.2	126.6	150.1
87.5°	39.9	39.9	46.9	56.3	75.0
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	17.65	19.13	18.01	19.44	19.76	15.45	16.93	15.81	17.24	17.56
	3H	19.17	20.50	19.55	20.83	21.19	17.78	19.10	18.16	19.43	19.80
	4H	19.76	21.01	20.16	21.36	21.74	18.73	19.97	19.13	20.32	20.70
	6H	20.22	21.37	20.63	21.74	22.13	19.51	20.66	19.93	21.03	21.42
	8H	20.37	21.46	20.79	21.85	22.25	19.82	20.92	20.25	21.31	21.71
	12H	20.46	21.51	20.89	21.89	22.32	20.07	21.12	20.50	21.50	21.93
4H	2H	18.20	19.44	18.60	19.79	20.17	16.55	17.80	16.95	18.14	18.52
	3H	19.97	21.00	20.38	21.40	21.80	19.00	20.03	19.41	20.43	20.83
	4H	20.69	21.61	21.12	22.03	22.47	20.06	20.99	20.50	21.41	21.85
	6H	21.27	22.08	21.73	22.52	22.98	20.95	21.76	21.41	22.20	22.66
	8H	21.46	22.22	21.93	22.66	23.13	21.30	22.06	21.77	22.50	22.97
	12H	21.60	22.27	22.08	22.75	23.22	21.59	22.26	22.07	22.74	23.22
8H	4H	20.99	21.75	21.46	22.19	22.66	20.45	21.20	20.91	21.65	22.12
	6H	21.71	22.33	22.20	22.82	23.30	21.49	22.11	21.98	22.60	23.08
	8H	21.97	22.53	22.48	23.04	23.53	21.93	22.49	22.45	23.00	23.49
	12H	22.18	22.68	22.69	23.17	23.73	22.32	22.81	22.83	23.31	23.87
12H	4H	21.03	21.70	21.51	22.18	22.65	20.49	21.16	20.97	21.64	22.11
	6H	21.77	22.33	22.29	22.84	23.33	21.55	22.11	22.06	22.62	23.11
	8H	22.09	22.59	22.60	23.08	23.65	22.06	22.56	22.57	23.05	23.61