

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: P894596

Luminaire Tested: 8TMB-14HL-FLT-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2403-334-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-14HL-FLT-UNV-L950
Description: 14000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

Summary

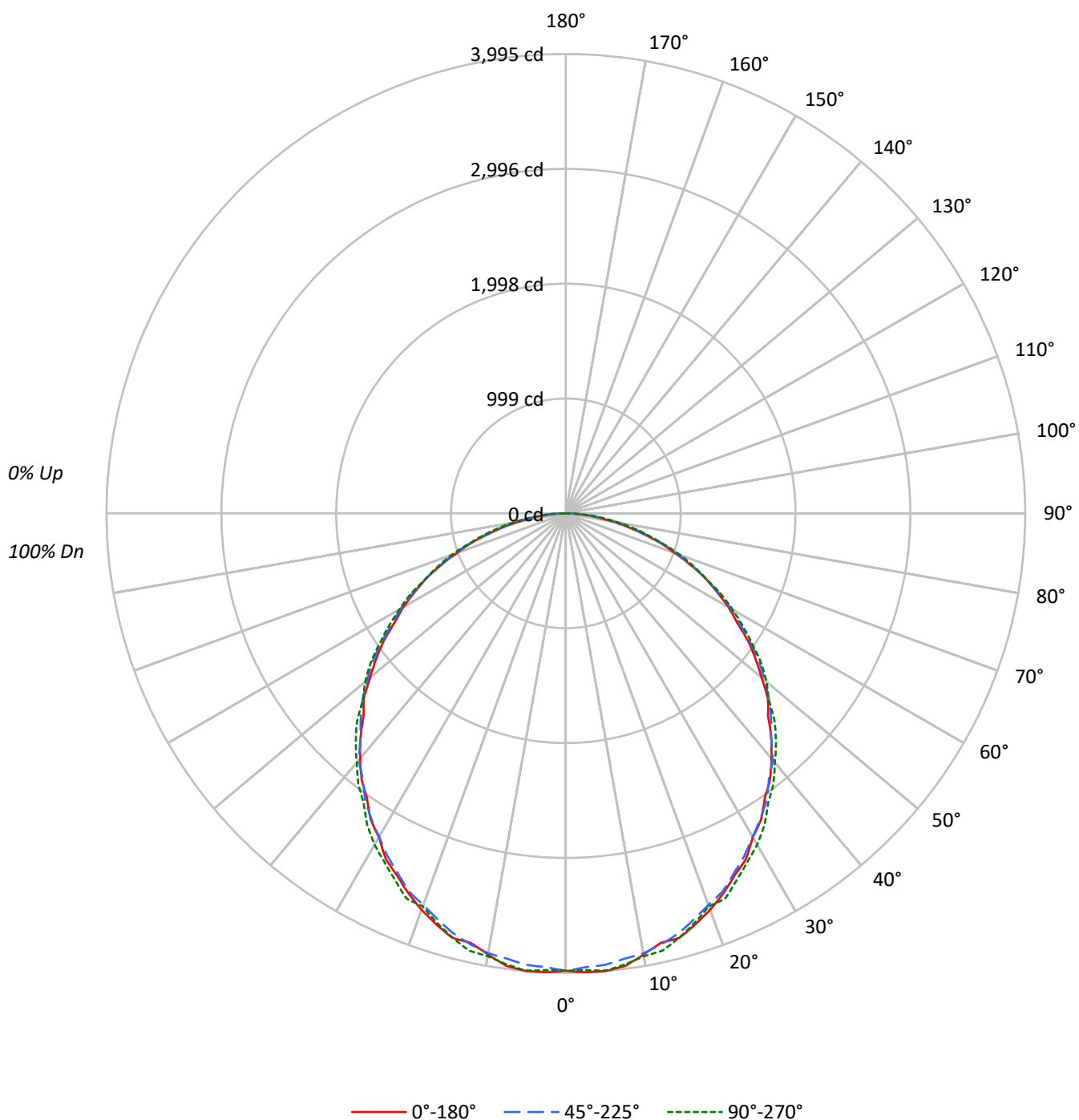
Lumens per Lamp: N/A
Luminaire Lumens: 11021.0 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.34
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 103.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 5.03
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
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	102	100
1	109	104	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	86	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	72	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	69	65	61	61	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	52	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	40	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	35	35	33
8	60	47	38	33	59	46	38	32	45	37	32	44	37	32	42	36	32	32	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	29	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14113	14113	14113
5°	14228	14038	14216
10°	14034	13996	14089
15°	14036	13891	14024
20°	13851	13682	13734
25°	13601	13527	13769
30°	13326	13304	13635
35°	13068	13180	13292
40°	12892	12972	13099
45°	12475	12665	12898
50°	12272	12452	12576
55°	11967	12116	12244
60°	11595	11766	11876
65°	11252	11295	11295
70°	10463	10712	10980
75°	9633	10010	10223
80°	8496	9234	9548
85°	7625	8533	9164

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 12898 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.5	3.4
10°-20°	1072.9	9.7
20°-30°	1609.3	14.6
30°-40°	1911.3	17.3
40°-50°	1956.9	17.8
50°-60°	1753.3	15.9
60°-70°	1331.9	12.1
70°-80°	775.8	7.0
80°-90°	233.0	2.1
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°	3058.7	27.8
0°-40°	4970.1	45.1
0°-60°	8680.3	78.8
0°-90°	11021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11021.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3978	3978	3978	3978	3978	
5°	3995	3979	3941	3966	3991	378
15°	3821	3847	3782	3797	3818	1073
25°	3474	3505	3455	3500	3517	1603
35°	3017	3084	3043	3055	3069	1896
45°	2486	2548	2524	2545	2570	1934
55°	1935	1964	1959	1981	1979	1724
65°	1340	1340	1345	1362	1345	1316
75°	703	715	730	753	746	748
85°	187	191	210	223	225	210
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3977.5	3977.5	3977.5	3977.5	3977.5
2.5°	3994.7	3975.8	3950.0	3958.6	3975.8
5°	3994.7	3979.2	3941.4	3965.5	3991.3
7.5°	3968.9	3989.6	3907.1	3907.1	3955.2
10°	3895.1	3934.6	3884.7	3879.6	3910.5
12.5°	3824.6	3896.8	3838.4	3855.5	3893.3
15°	3821.2	3846.9	3781.7	3797.1	3817.7
17.5°	3747.3	3773.1	3702.6	3731.8	3731.8
20°	3668.3	3673.4	3623.6	3687.2	3637.3
22.5°	3577.2	3630.5	3561.7	3582.3	3625.3
25°	3474.1	3505.0	3455.2	3499.9	3517.1
27.5°	3389.9	3427.7	3359.0	3412.3	3417.4
30°	3252.5	3293.7	3247.3	3281.7	3328.1
32.5°	3159.7	3173.4	3149.4	3200.9	3214.7
35°	3017.1	3084.1	3042.8	3054.9	3068.6
37.5°	2917.4	2938.0	2902.0	2943.2	2965.5
40°	2783.4	2814.3	2800.6	2807.5	2828.1
42.5°	2644.2	2676.9	2640.8	2690.6	2706.1
45°	2486.2	2548.0	2524.0	2544.6	2570.4
47.5°	2383.1	2403.7	2396.8	2408.8	2391.7
50°	2223.3	2243.9	2255.9	2271.4	2278.3
52.5°	2080.7	2096.1	2118.5	2127.1	2142.5
55°	1934.6	1963.8	1958.7	1981.0	1979.3
57.5°	1764.5	1807.5	1793.8	1826.4	1826.4
60°	1634.0	1640.8	1658.0	1673.5	1673.5
62.5°	1482.8	1491.4	1499.9	1513.7	1524.0
65°	1340.2	1340.2	1345.3	1362.5	1345.3
67.5°	1175.2	1168.3	1185.5	1206.1	1204.4
70°	1008.6	1017.1	1032.6	1058.4	1058.4
72.5°	865.9	865.9	883.1	896.9	895.2
75°	702.7	714.8	730.2	752.6	745.7
77.5°	556.7	565.3	591.0	611.7	613.4
80°	415.8	424.4	451.9	472.5	467.3
82.5°	290.4	302.4	328.2	343.6	341.9
85°	187.3	190.7	209.6	223.4	225.1
87.5°	85.9	92.8	106.5	111.7	111.7
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	20.73	22.36	21.09	22.68	22.99	20.83	22.47	21.20	22.78	23.10
	3H	22.51	23.99	22.88	24.31	24.67	22.67	24.15	23.05	24.48	24.84
	4H	23.17	24.57	23.57	24.91	25.29	23.37	24.76	23.76	25.11	25.49
	6H	23.64	24.94	24.05	25.30	25.70	23.92	25.21	24.33	25.58	25.97
	8H	23.79	25.03	24.22	25.42	25.82	24.11	25.34	24.53	25.73	26.13
	12H	23.90	25.09	24.33	25.47	25.90	24.25	25.44	24.68	25.82	26.25
4H	2H	21.37	22.77	21.77	23.12	23.49	21.45	22.85	21.85	23.20	23.57
	3H	23.37	24.55	23.78	24.94	25.34	23.52	24.69	23.93	25.09	25.49
	4H	24.16	25.23	24.60	25.64	26.08	24.35	25.42	24.79	25.83	26.27
	6H	24.76	25.69	25.22	26.13	26.59	25.04	25.97	25.50	26.41	26.87
	8H	24.96	25.83	25.42	26.27	26.74	25.29	26.16	25.75	26.60	27.07
	12H	25.11	25.90	25.59	26.37	26.84	25.49	26.27	25.97	26.75	27.21
8H	4H	24.50	25.37	24.96	25.81	26.28	24.67	25.54	25.13	25.98	26.45
	6H	25.22	25.95	25.72	26.44	26.91	25.49	26.22	25.98	26.70	27.18
	8H	25.50	26.15	26.00	26.65	27.14	25.82	26.47	26.33	26.98	27.47
	12H	25.72	26.30	26.23	26.79	27.35	26.11	26.69	26.62	27.18	27.74
12H	4H	24.54	25.33	25.02	25.80	26.27	24.70	25.48	25.18	25.96	26.43
	6H	25.30	25.95	25.80	26.45	26.94	25.55	26.20	26.06	26.71	27.19
	8H	25.63	26.21	26.14	26.70	27.26	25.95	26.52	26.45	27.01	27.57