

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: P894634

Luminaire Tested: 8TMB-14HL-RFLW-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-14HL-RFLW-UNV-L935
Description: 14000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3500K
Light Source: -
Ballast/Driver: -

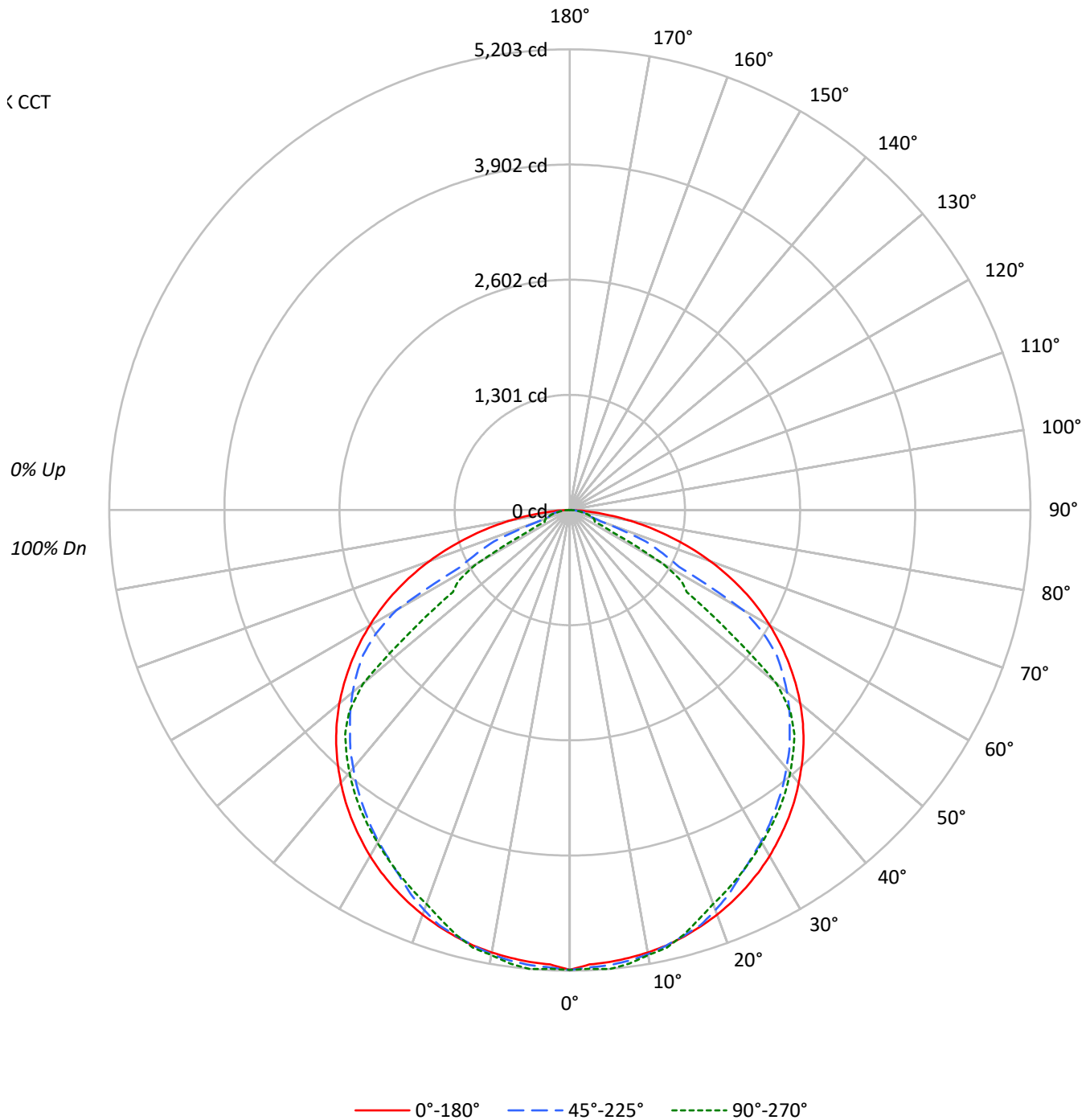
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13538.0 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.25 / 1.38
Luminous Opening: Rectangular (W 0.21' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 103.6
Input Voltage (V): 120
Input Current (A_{in}): 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			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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	88	88	86
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	75	75	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	65	65	65	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	56	56	56	54
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	49	49	49	47
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	48	43	43	43	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	34	34	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	31	29
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	33627	33627	33627
5°	33319	33537	33818
10°	33367	33493	33557
15°	33440	33365	33289
20°	33524	33138	32631
25°	33616	32553	32484
30°	33744	32331	32463
35°	33865	32208	32600
40°	34009	32168	32736
45°	34190	32153	32871
50°	34242	32275	30712
55°	34092	32176	18211
60°	33803	29326	15792
65°	33249	17728	4782
70°	31934	7030	5485
75°	29588	5764	5604
80°	25600	6086	5251
85°	18188	5706	4993

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 34242 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.9	3.6
10°-20°	1408.7	10.4
20°-30°	2128.7	15.7
30°-40°	2597.3	19.2
40°-50°	2747.4	20.3
50°-60°	2275.6	16.8
60°-70°	1265.0	9.3
70°-80°	512.8	3.8
80°-90°	110.5	0.8
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°	4029.3	29.8
0°-40°	6626.6	48.9
0°-60°	11649.6	86.1
0°-90°	13538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13538.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5193	5193	5193	5193	5193	
5°	5126	5217	5159	5167	5203	488
15°	4988	5065	4977	4974	4966	1409
25°	4705	4738	4556	4527	4546	2170
35°	4284	4231	4074	4090	4124	2682
45°	3734	3542	3511	3554	3590	2878
55°	3020	2815	2850	1956	1613	2698
65°	2170	1989	1157	389	312	2140
75°	1183	659	230	227	224	1249
85°	245	82	77	70	67	307
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5193.0	5193.0	5193.0	5193.0	5193.0
2.5°	5137.0	5226.6	5170.6	5181.8	5186.6
5°	5125.8	5217.0	5159.4	5167.4	5202.6
7.5°	5101.8	5194.6	5133.8	5138.6	5165.8
10°	5074.6	5159.4	5093.8	5085.8	5103.4
12.5°	5037.8	5114.6	5037.8	5041.0	5063.4
15°	4988.1	5065.0	4976.9	4973.7	4965.7
17.5°	4928.9	5000.9	4914.5	4863.3	4845.7
20°	4864.9	4920.9	4808.9	4730.5	4735.3
22.5°	4788.1	4836.1	4695.3	4623.3	4644.1
25°	4704.9	4738.5	4556.1	4527.3	4546.5
27.5°	4613.7	4639.3	4436.0	4429.6	4445.6
30°	4512.9	4522.5	4324.0	4320.8	4341.6
32.5°	4400.8	4384.8	4204.0	4207.2	4234.4
35°	4284.0	4231.2	4074.4	4090.4	4124.0
37.5°	4160.8	4066.4	3946.3	3967.1	4004.0
40°	4023.2	3895.1	3805.5	3837.5	3872.7
42.5°	3882.3	3715.9	3669.5	3699.9	3733.5
45°	3733.5	3541.5	3511.1	3554.3	3589.5
47.5°	3571.9	3370.2	3365.4	3399.0	3383.0
50°	3399.0	3192.6	3203.8	3159.0	3048.6
52.5°	3213.4	3008.6	3031.0	2837.3	2293.2
55°	3019.8	2814.9	2850.1	1955.6	1613.1
57.5°	2821.3	2616.5	2594.1	1496.3	1494.7
60°	2610.1	2414.9	2264.4	1321.8	1219.4
62.5°	2397.3	2205.2	1390.7	995.4	560.1
65°	2170.0	1989.2	1157.0	388.9	312.1
67.5°	1931.6	1769.9	926.6	292.9	304.1
70°	1686.7	1542.7	371.3	283.3	289.7
72.5°	1437.1	1190.6	246.4	262.4	262.4
75°	1182.6	659.3	230.4	227.2	224.0
77.5°	929.8	441.7	201.6	187.2	182.4
80°	686.5	158.4	163.2	145.6	140.8
82.5°	454.5	123.2	116.8	105.6	102.4
85°	244.8	81.6	76.8	70.4	67.2
87.5°	88.0	41.6	41.6	33.6	30.4
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	24.89	26.46	25.26	26.78	27.09	20.88	22.45	21.25	22.77	23.08
	3H	26.90	28.31	27.28	28.63	28.99	21.01	22.42	21.39	22.75	23.11
	4H	27.51	28.83	27.91	29.18	29.55	21.13	22.45	21.53	22.80	23.18
	6H	27.91	29.13	28.32	29.49	29.88	21.24	22.46	21.65	22.82	23.21
	8H	28.03	29.19	28.45	29.58	29.98	21.27	22.43	21.70	22.82	23.22
	12H	28.10	29.21	28.53	29.59	30.02	21.30	22.41	21.73	22.79	23.22
4H	2H	25.02	26.34	25.42	26.69	27.07	21.61	22.93	22.01	23.27	23.65
	3H	27.18	28.27	27.59	28.67	29.07	21.80	22.89	22.21	23.29	23.69
	4H	27.84	28.81	28.27	29.23	29.67	21.96	22.94	22.39	23.35	23.79
	6H	28.28	29.13	28.74	29.57	30.03	22.12	22.97	22.58	23.42	23.87
	8H	28.42	29.21	28.88	29.66	30.13	22.18	22.97	22.64	23.41	23.88
	12H	28.53	29.23	29.01	29.71	30.18	22.22	22.93	22.70	23.41	23.88
8H	4H	27.77	28.56	28.23	29.01	29.47	22.23	23.02	22.69	23.47	23.93
	6H	28.21	28.87	28.71	29.36	29.84	22.44	23.09	22.93	23.58	24.06
	8H	28.36	28.95	28.87	29.46	29.95	22.52	23.11	23.03	23.62	24.11
	12H	28.49	29.02	29.00	29.51	30.07	22.61	23.13	23.12	23.62	24.18
12H	4H	27.74	28.45	28.23	28.93	29.40	22.24	22.95	22.73	23.43	23.90
	6H	28.17	28.76	28.69	29.27	29.76	22.45	23.05	22.97	23.55	24.04
	8H	28.34	28.87	28.85	29.36	29.92	22.58	23.10	23.09	23.59	24.16