

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: P894614

Luminaire Tested: 8TMB-14HL-LVRA-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894614
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-14HL-LVRA-UNV-L835
Description: 14000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

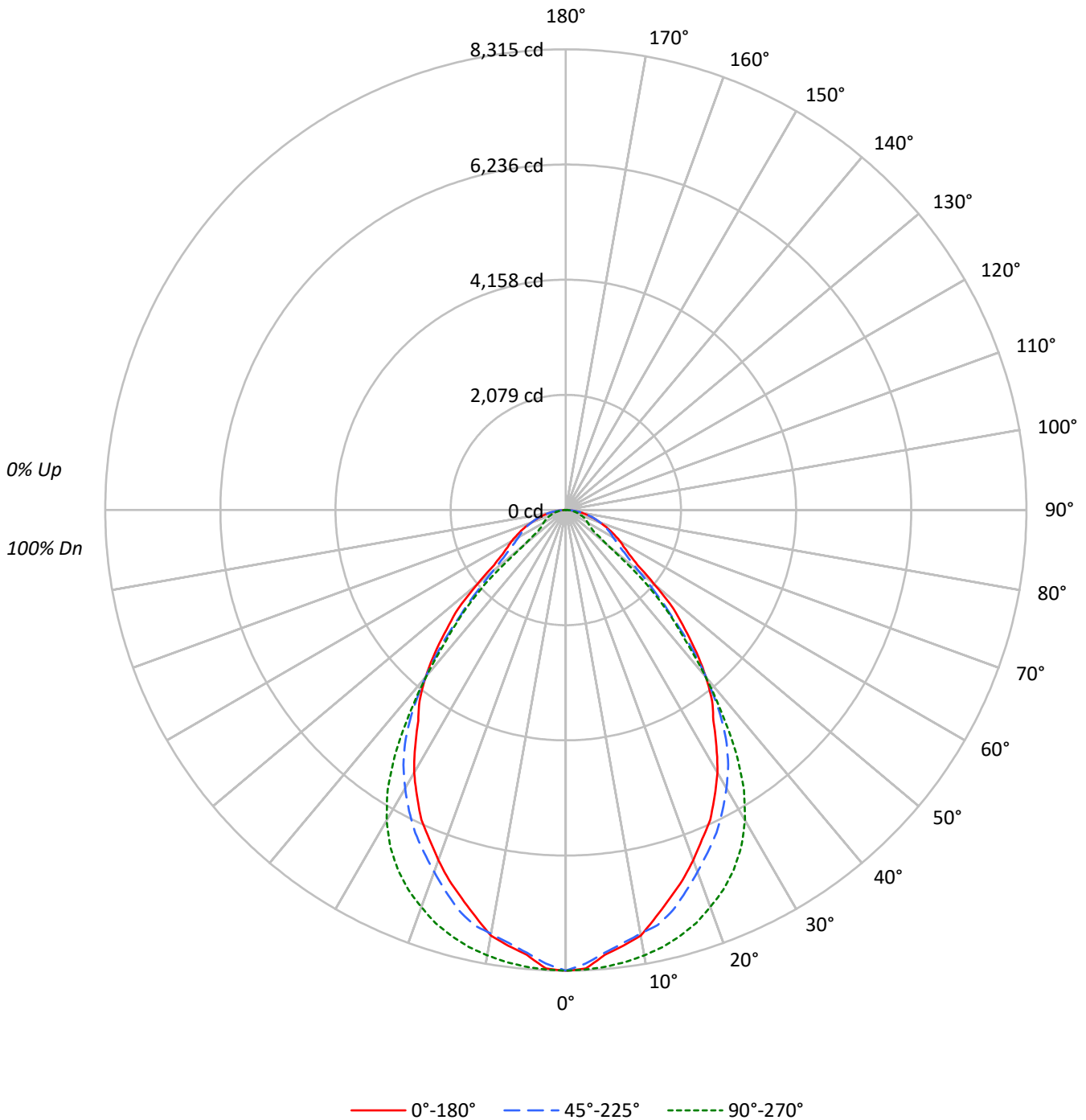
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13495.0 lumens
Efficiency: N/A
Efficacy: 130.3 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): 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			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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	80	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	71	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	63	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	52	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	47	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	37	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29503	29503	29503
5°	28707	28578	29470
10°	28097	27974	29402
15°	26647	27466	29237
20°	25384	26242	28791
25°	24146	25178	28056
30°	22433	23768	26490
35°	20115	21842	23234
40°	18224	18264	18165
45°	15238	13495	13162
50°	11510	9499	5382
55°	8657	7596	3394
60°	8045	6996	3270
65°	7485	6981	3274
70°	6848	6848	3223
75°	6493	6669	3115
80°	5999	6306	3196
85°	5235	5496	3489

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 15592 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	768.1	5.7
10°-20°	2116.4	15.7
20°-30°	3001.0	22.2
30°-40°	3091.7	22.9
40°-50°	2159.5	16.0
50°-60°	1036.2	7.7
60°-70°	727.0	5.4
70°-80°	454.5	3.4
80°-90°	140.6	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°	5885.5	43.6
0°-40°	8977.2	66.5
0°-60°	12172.9	90.2
0°-90°	13495.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13495.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8315	8315	8315	8315	8315	
5°	8060	8049	8024	8234	8274	763
15°	7254	7308	7477	7691	7959	2043
25°	6168	6230	6431	6866	7166	2820
35°	4644	4770	5043	5148	5364	2926
45°	3037	3107	2690	2552	2623	2340
55°	1399	1331	1228	786	549	1311
65°	892	834	832	632	390	883
75°	474	467	486	420	227	499
85°	129	129	135	133	86	144
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8315.0	8315.0	8315.0	8315.0	8315.0
2.5°	8282.9	8257.2	8195.0	8308.6	8300.0
5°	8060.0	8049.3	8023.6	8233.6	8274.3
7.5°	7933.6	7912.2	7882.1	8113.6	8227.2
10°	7798.6	7824.3	7764.3	7976.4	8160.7
12.5°	7520.0	7588.6	7670.0	7835.0	8079.3
15°	7254.2	7307.8	7477.1	7691.4	7959.3
17.5°	7005.6	7067.8	7213.5	7535.0	7820.0
20°	6722.8	6808.5	6949.9	7361.4	7625.0
22.5°	6431.3	6510.6	6688.5	7129.9	7423.5
25°	6167.7	6229.9	6431.3	6866.3	7166.4
27.5°	5818.4	5934.1	6124.8	6544.9	6859.9
30°	5475.5	5574.1	5801.2	6154.8	6465.6
32.5°	5061.9	5205.5	5456.2	5726.2	5985.5
35°	4644.0	4770.4	5042.6	5147.6	5364.1
37.5°	4339.7	4374.0	4528.3	4515.4	4637.6
40°	3934.6	4003.2	3943.2	3782.5	3921.8
42.5°	3497.5	3578.9	3336.7	3150.3	3199.6
45°	3036.7	3107.4	2689.5	2552.4	2623.1
47.5°	2638.1	2631.7	2168.8	2076.6	1978.0
50°	2085.2	2153.8	1720.9	1549.4	975.1
52.5°	1628.7	1654.4	1418.7	990.1	640.8
55°	1399.4	1330.8	1228.0	786.5	548.6
57.5°	1243.0	1157.2	1088.7	730.8	501.5
60°	1133.7	1037.2	985.8	694.3	460.8
62.5°	1009.4	934.4	915.1	662.2	424.3
65°	891.5	833.6	831.5	632.2	390.0
67.5°	773.6	741.5	750.1	595.8	351.5
70°	660.1	653.6	660.1	548.6	310.7
72.5°	563.6	557.2	574.3	488.6	265.7
75°	473.6	467.2	486.5	420.0	227.2
77.5°	377.2	381.5	394.3	349.3	190.7
80°	293.6	293.6	308.6	274.3	156.4
82.5°	210.0	212.2	220.7	201.4	122.2
85°	128.6	128.6	135.0	132.9	85.7
87.5°	42.9	49.3	57.9	62.1	42.9
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	17.41	18.76	17.77	19.07	19.39	13.74	15.09	14.10	15.40	15.72
	3H	19.14	20.35	19.52	20.68	21.04	15.71	16.92	16.09	17.25	17.61
	4H	19.82	20.94	20.22	21.29	21.68	16.42	17.55	16.82	17.90	18.28
	6H	20.32	21.36	20.74	21.73	22.12	16.94	17.98	17.36	18.35	18.74
	8H	20.49	21.48	20.92	21.87	22.27	17.13	18.11	17.56	18.50	18.91
	12H	20.60	21.55	21.04	21.93	22.36	17.27	18.21	17.70	18.59	19.02
4H	2H	17.94	19.06	18.34	19.41	19.80	15.36	16.49	15.76	16.84	17.22
	3H	19.91	20.84	20.33	21.25	21.65	17.54	18.47	17.95	18.87	19.27
	4H	20.72	21.55	21.15	21.97	22.41	18.42	19.25	18.85	19.67	20.11
	6H	21.36	22.08	21.82	22.53	22.99	19.06	19.78	19.52	20.23	20.69
	8H	21.58	22.26	22.05	22.70	23.17	19.27	19.95	19.74	20.39	20.86
	12H	21.73	22.33	22.22	22.81	23.29	19.43	20.03	19.91	20.51	20.98
8H	4H	21.00	21.68	21.47	22.12	22.59	19.07	19.74	19.53	20.19	20.66
	6H	21.78	22.34	22.28	22.83	23.31	19.93	20.48	20.43	20.98	21.46
	8H	22.08	22.58	22.60	23.10	23.59	20.26	20.75	20.78	21.27	21.76
	12H	22.32	22.76	22.83	23.25	23.82	20.52	20.96	21.03	21.45	22.02
12H	4H	21.02	21.62	21.50	22.10	22.57	19.14	19.74	19.62	20.22	20.69
	6H	21.84	22.33	22.35	22.85	23.34	20.07	20.56	20.58	21.08	21.57
	8H	22.20	22.64	22.71	23.13	23.70	20.48	20.92	20.99	21.41	21.98