

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: P894809

Luminaire Tested: 8TMB-18HL-LVRA-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894809
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-18HL-LVRA-UNV-L930
Description: 18000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

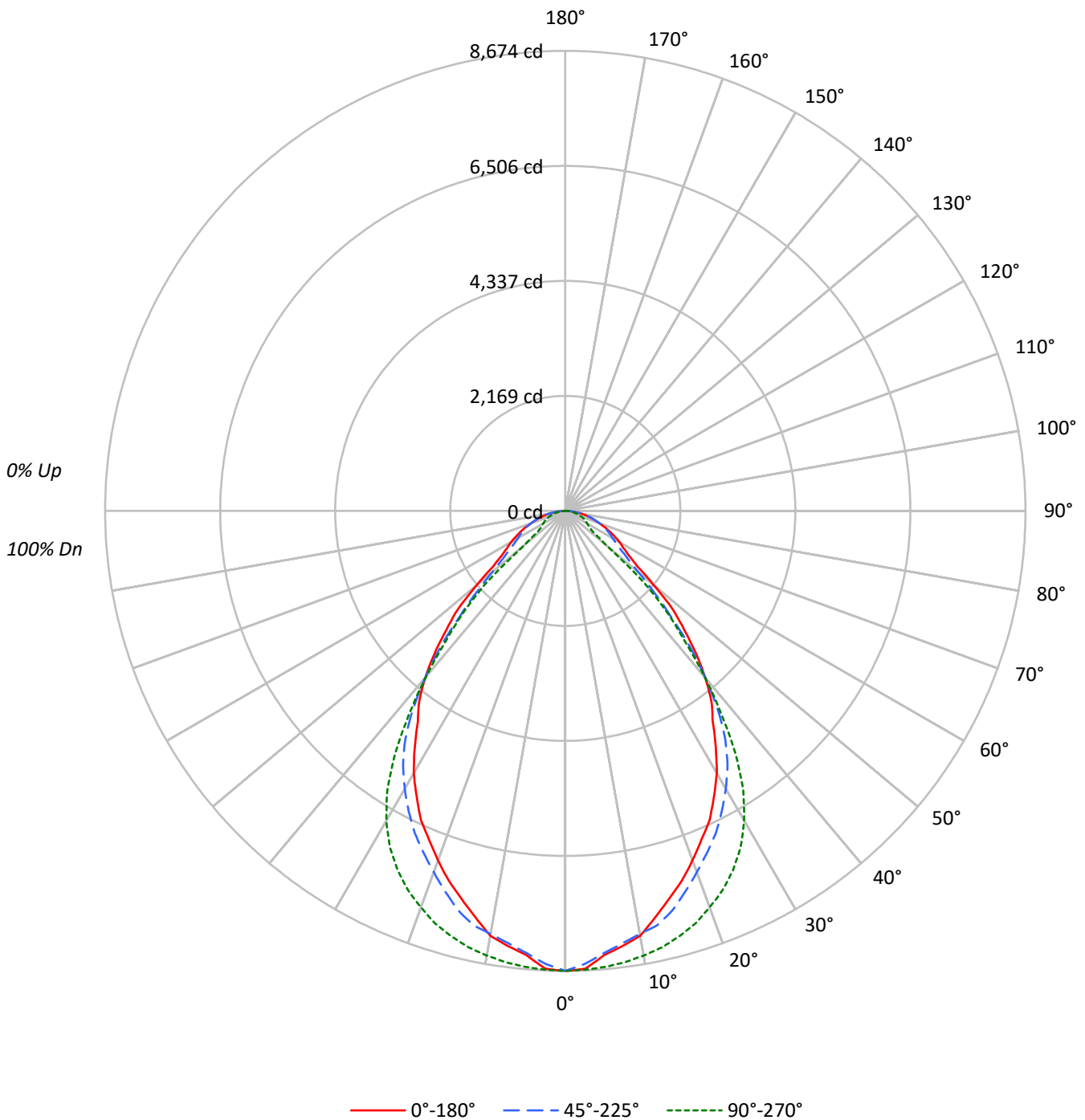
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14077.0 lumens
Efficiency: N/A
Efficacy: 104.4 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): 134.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 8.62
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	
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78	78	
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69	69	
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62	62	
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55	55	
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50	50	
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45	45	
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41	41	
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35	35	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	30775	30775	30775
5°	29945	29810	30742
10°	29309	29180	30670
15°	27796	28650	30498
20°	26479	27374	30032
25°	25188	26264	29266
30°	23401	24793	27632
35°	20983	22784	24236
40°	19010	19052	18948
45°	15895	14077	13730
50°	12006	9909	5614
55°	9030	7924	3540
60°	8392	7297	3410
65°	7808	7282	3416
70°	7143	7143	3362
75°	6772	6957	3249
80°	6259	6577	3335
85°	5459	5732	3639

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 16265 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	801.2	5.7
10°-20°	2207.6	15.7
20°-30°	3130.5	22.2
30°-40°	3225.1	22.9
40°-50°	2252.6	16.0
50°-60°	1080.9	7.7
60°-70°	758.3	5.4
70°-80°	474.1	3.4
80°-90°	146.6	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°	6139.3	43.6
0°-40°	9364.4	66.5
0°-60°	12697.9	90.2
0°-90°	14077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14077.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8674	8674	8674	8674	8674	
5°	8408	8396	8370	8589	8631	796
15°	7567	7623	7800	8023	8303	2131
25°	6434	6498	6709	7162	7475	2942
35°	4844	4976	5260	5370	5595	3053
45°	3168	3241	2806	2662	2736	2441
55°	1460	1388	1281	820	572	1368
65°	930	870	867	660	407	921
75°	494	487	508	438	237	520
85°	134	134	141	139	89	150
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8673.6	8673.6	8673.6	8673.6	8673.6
2.5°	8640.1	8613.3	8548.5	8666.9	8658.0
5°	8407.6	8396.4	8369.6	8588.7	8631.2
7.5°	8275.7	8253.4	8222.1	8463.5	8582.0
10°	8134.9	8161.7	8099.1	8320.4	8512.7
12.5°	7844.3	7915.8	8000.8	8172.9	8427.7
15°	7567.1	7623.0	7799.6	8023.1	8302.6
17.5°	7307.8	7372.6	7524.6	7859.9	8157.3
20°	7012.7	7102.1	7249.7	7678.9	7953.8
22.5°	6708.7	6791.4	6976.9	7437.4	7743.7
25°	6433.7	6498.5	6708.7	7162.5	7475.4
27.5°	6069.3	6190.0	6389.0	6827.1	7155.8
30°	5711.6	5814.5	6051.4	6420.3	6744.4
32.5°	5280.2	5430.0	5691.5	5973.2	6243.7
35°	4844.3	4976.2	5260.1	5369.6	5595.4
37.5°	4526.8	4562.6	4723.6	4710.1	4837.6
40°	4104.3	4175.9	4113.3	3945.6	4090.9
42.5°	3648.3	3733.2	3480.6	3286.2	3337.6
45°	3167.7	3241.4	2805.5	2662.5	2736.2
47.5°	2751.9	2745.2	2262.3	2166.2	2063.3
50°	2175.1	2246.7	1795.1	1616.2	1017.1
52.5°	1699.0	1725.8	1479.9	1032.8	668.4
55°	1459.8	1388.2	1280.9	820.4	572.3
57.5°	1296.6	1207.2	1135.6	762.3	523.1
60°	1182.6	1082.0	1028.3	724.3	480.6
62.5°	1052.9	974.7	954.5	690.8	442.6
65°	930.0	869.6	867.4	659.5	406.9
67.5°	807.0	773.5	782.4	621.5	366.6
70°	688.5	681.8	688.5	572.3	324.1
72.5°	587.9	581.2	599.1	509.7	277.2
75°	494.0	487.3	507.5	438.2	237.0
77.5°	393.4	397.9	411.3	364.4	199.0
80°	306.3	306.3	321.9	286.1	163.2
82.5°	219.1	221.3	230.3	210.1	127.4
85°	134.1	134.1	140.8	138.6	89.4
87.5°	44.7	51.4	60.4	64.8	44.7
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	17.55	18.91	17.92	19.22	19.53	13.88	15.24	14.25	15.55	15.87
	3H	19.29	20.50	19.67	20.83	21.19	15.86	17.07	16.24	17.40	17.76
	4H	19.96	21.09	20.36	21.44	21.82	16.57	17.69	16.97	18.04	18.43
	6H	20.47	21.51	20.88	21.88	22.27	17.09	18.13	17.50	18.50	18.89
	8H	20.64	21.63	21.07	22.02	22.42	17.27	18.26	17.70	18.65	19.05
	12H	20.75	21.69	21.18	22.08	22.51	17.41	18.36	17.84	18.74	19.17
4H	2H	18.08	19.21	18.48	19.56	19.94	15.51	16.63	15.91	16.98	17.37
	3H	20.06	20.99	20.47	21.39	21.80	17.68	18.62	18.10	19.02	19.42
	4H	20.86	21.70	21.30	22.12	22.56	18.56	19.40	19.00	19.82	20.26
	6H	21.51	22.23	21.97	22.67	23.14	19.21	19.93	19.67	20.38	20.84
	8H	21.73	22.40	22.19	22.85	23.32	19.42	20.09	19.88	20.54	21.01
	12H	21.88	22.48	22.36	22.96	23.43	19.57	20.17	20.06	20.66	21.13
8H	4H	21.15	21.82	21.61	22.27	22.74	19.21	19.89	19.68	20.34	20.81
	6H	21.93	22.49	22.43	22.98	23.46	20.07	20.63	20.58	21.13	21.61
	8H	22.23	22.73	22.75	23.24	23.74	20.40	20.90	20.92	21.42	21.91
	12H	22.47	22.91	22.98	23.40	23.97	20.67	21.11	21.18	21.60	22.17
12H	4H	21.16	21.76	21.65	22.25	22.72	19.29	19.89	19.77	20.37	20.84
	6H	21.98	22.48	22.50	23.00	23.49	20.21	20.71	20.73	21.23	21.72
	8H	22.35	22.79	22.86	23.28	23.85	20.63	21.07	21.14	21.56	22.13