

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: P894713

Luminaire Tested: 8TMB-16HL-LVRA-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894713
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-16HL-LVRA-UNV-L930
Description: 16000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

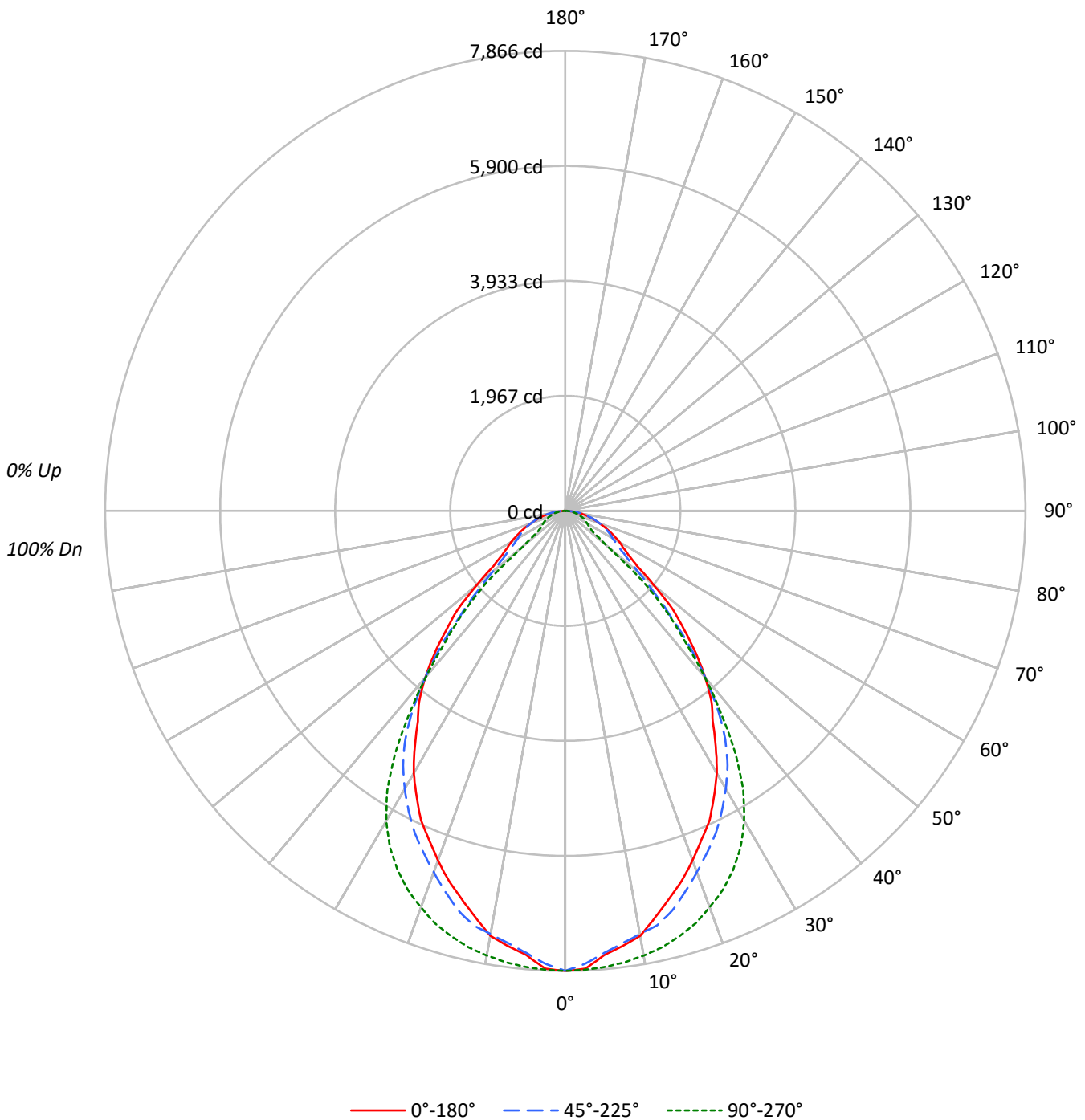
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12766.0 lumens
Efficiency: N/A
Efficacy: 110.2 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): 115.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.999
Total Harmonic Distortion (THDi): 4.23
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		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78		
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69		
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62		
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55		
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50		
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45		
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41		
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38		
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27909	27909	27909
5°	27156	27034	27878
10°	26579	26463	27814
15°	25208	25982	27657
20°	24013	24824	27236
25°	22842	23818	26540
30°	21221	22484	25059
35°	19029	20662	21979
40°	17240	17277	17183
45°	14415	12766	12451
50°	10888	8986	5092
55°	8189	7186	3211
60°	7610	6618	3093
65°	7081	6604	3098
70°	6478	6478	3050
75°	6142	6309	2946
80°	5674	5964	3024
85°	4950	5199	3302

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 14750 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	726.6	5.7
10°-20°	2002.0	15.7
20°-30°	2838.9	22.2
30°-40°	2924.7	22.9
40°-50°	2042.8	16.0
50°-60°	980.2	7.7
60°-70°	687.7	5.4
70°-80°	430.0	3.4
80°-90°	133.0	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°	5567.6	43.6
0°-40°	8492.3	66.5
0°-60°	11515.3	90.2
0°-90°	12766.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12766.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7866	7866	7866	7866	7866	
5°	7625	7614	7590	7789	7827	722
15°	6862	6913	7073	7276	7529	1932
25°	5834	5893	6084	6495	6779	2668
35°	4393	4513	4770	4870	5074	2768
45°	2873	2940	2544	2414	2481	2213
55°	1324	1259	1162	744	519	1240
65°	843	789	787	598	369	836
75°	448	442	460	397	215	472
85°	122	122	128	126	81	136
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7865.9	7865.9	7865.9	7865.9	7865.9
2.5°	7835.5	7811.1	7752.3	7859.8	7851.7
5°	7624.6	7614.5	7590.2	7788.8	7827.3
7.5°	7505.0	7484.7	7456.4	7675.3	7782.7
10°	7377.3	7401.6	7344.9	7545.6	7719.9
12.5°	7113.7	7178.6	7255.7	7411.8	7642.9
15°	6862.4	6913.0	7073.2	7275.9	7529.3
17.5°	6627.2	6686.0	6823.8	7127.9	7397.6
20°	6359.6	6440.7	6574.5	6963.7	7213.1
22.5°	6083.9	6158.9	6327.2	6744.8	7022.5
25°	5834.5	5893.3	6083.9	6495.4	6779.2
27.5°	5504.1	5613.6	5794.0	6191.3	6489.3
30°	5179.7	5273.0	5487.9	5822.4	6116.3
32.5°	4788.4	4924.3	5161.5	5416.9	5662.2
35°	4393.1	4512.7	4770.2	4869.5	5074.3
37.5°	4105.3	4137.7	4283.7	4271.5	4387.0
40°	3722.1	3787.0	3730.2	3578.2	3709.9
42.5°	3308.5	3385.6	3156.5	2980.1	3026.7
45°	2872.7	2939.6	2544.2	2414.5	2481.4
47.5°	2495.6	2489.5	2051.6	1964.4	1871.2
50°	1972.5	2037.4	1627.9	1465.7	922.4
52.5°	1540.7	1565.1	1342.1	936.6	606.2
55°	1323.8	1258.9	1161.6	744.0	519.0
57.5°	1175.8	1094.7	1029.9	691.3	474.4
60°	1072.4	981.2	932.6	656.8	435.9
62.5°	954.9	883.9	865.7	626.4	401.4
65°	843.4	788.6	786.6	598.0	369.0
67.5°	731.8	701.4	709.5	563.6	332.5
70°	624.4	618.3	624.4	519.0	294.0
72.5°	533.2	527.1	543.3	462.2	251.4
75°	448.0	441.9	460.2	397.3	214.9
77.5°	356.8	360.9	373.0	330.4	180.4
80°	277.7	277.7	291.9	259.5	148.0
82.5°	198.7	200.7	208.8	190.6	115.6
85°	121.6	121.6	127.7	125.7	81.1
87.5°	40.5	46.6	54.7	58.8	40.5
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	17.21	18.57	17.58	18.88	19.19	13.54	14.90	13.91	15.21	15.53
	3H	18.95	20.16	19.33	20.49	20.85	15.52	16.73	15.90	17.06	17.42
	4H	19.62	20.75	20.02	21.10	21.48	16.23	17.35	16.63	17.70	18.09
	6H	20.13	21.17	20.54	21.54	21.93	16.75	17.79	17.16	18.16	18.55
	8H	20.30	21.29	20.73	21.68	22.08	16.93	17.92	17.36	18.31	18.71
	12H	20.41	21.35	20.84	21.74	22.17	17.07	18.02	17.51	18.40	18.83
4H	2H	17.74	18.87	18.14	19.22	19.60	15.17	16.29	15.57	16.64	17.03
	3H	19.72	20.65	20.13	21.05	21.46	17.35	18.28	17.76	18.68	19.08
	4H	20.52	21.36	20.96	21.78	22.22	18.22	19.06	18.66	19.48	19.92
	6H	21.17	21.89	21.63	22.33	22.80	18.87	19.59	19.33	20.04	20.50
	8H	21.39	22.06	21.85	22.51	22.98	19.08	19.75	19.54	20.20	20.67
	12H	21.54	22.14	22.02	22.62	23.09	19.23	19.83	19.72	20.32	20.79
8H	4H	20.81	21.48	21.27	21.93	22.40	18.87	19.55	19.34	20.00	20.47
	6H	21.59	22.15	22.09	22.64	23.12	19.73	20.29	20.24	20.79	21.27
	8H	21.89	22.39	22.41	22.90	23.40	20.06	20.56	20.58	21.08	21.57
	12H	22.13	22.57	22.64	23.06	23.63	20.33	20.77	20.84	21.26	21.83
12H	4H	20.82	21.42	21.31	21.91	22.38	18.95	19.55	19.43	20.03	20.50
	6H	21.64	22.14	22.16	22.66	23.15	19.87	20.37	20.39	20.89	21.38
	8H	22.01	22.45	22.52	22.94	23.51	20.29	20.73	20.80	21.22	21.79