

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: P894714

Luminaire Tested: 8TMB-16HL-LVRA-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894714
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-L935
Description: 16000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

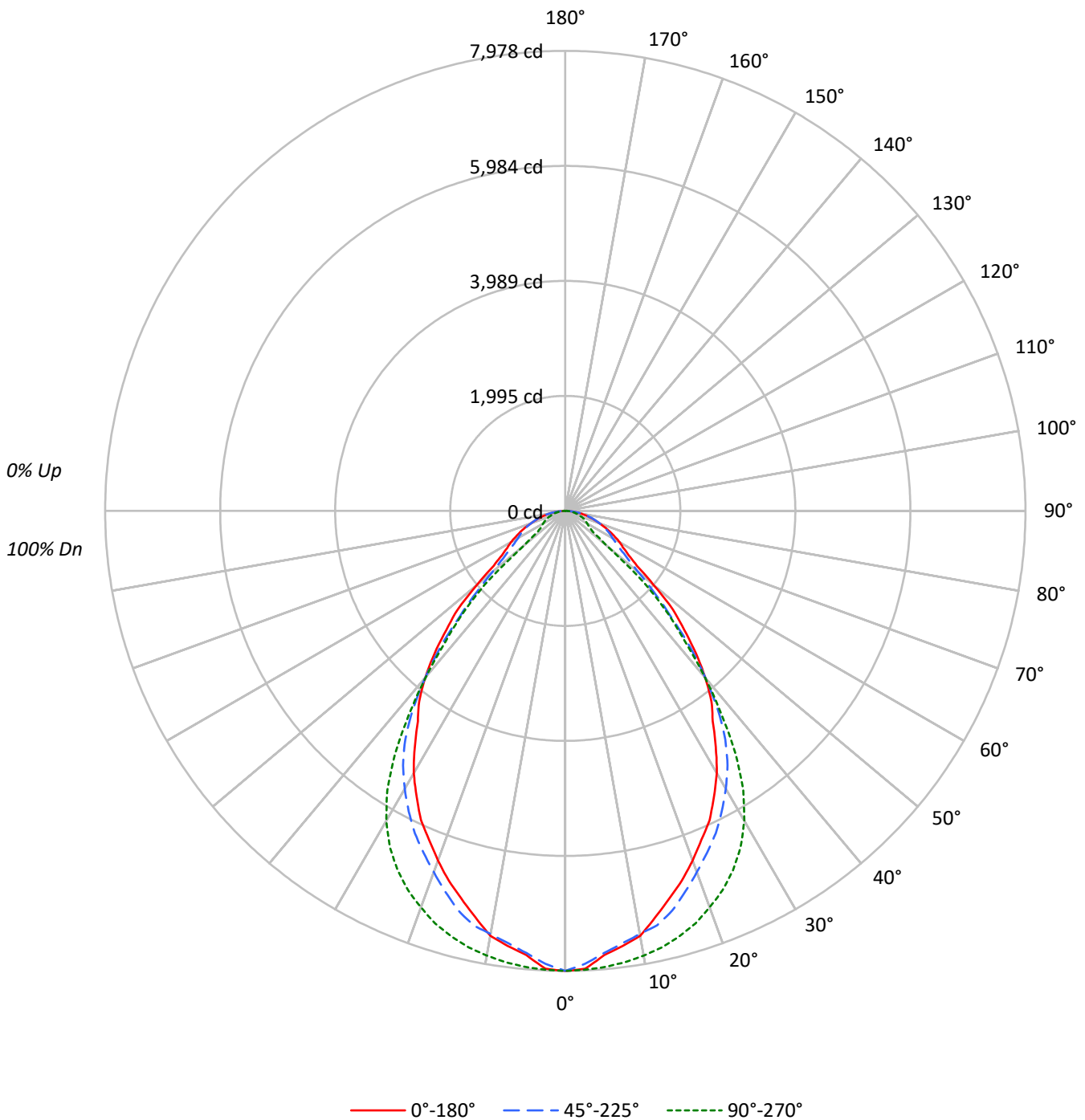
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12948.0 lumens
Efficiency: N/A
Efficacy: 111.8 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	102	100	
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	88	
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	78	
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	69	
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	62	
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	55	
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	50	
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	45	
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	41	
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	38	
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	35	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28307	28307	28307
5°	27544	27419	28276
10°	26958	26840	28210
15°	25567	26352	28052
20°	24355	25178	27624
25°	23167	24157	26919
30°	21524	22804	25416
35°	19300	20957	22292
40°	17486	17524	17428
45°	14620	12948	12629
50°	11044	9114	5164
55°	8306	7288	3256
60°	7719	6712	3137
65°	7182	6698	3142
70°	6570	6570	3093
75°	6229	6399	2989
80°	5756	6050	3067
85°	5024	5272	3346

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 14961 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	736.9	5.7
10°-20°	2030.6	15.7
20°-30°	2879.4	22.2
30°-40°	2966.4	22.9
40°-50°	2072.0	16.0
50°-60°	994.2	7.7
60°-70°	697.5	5.4
70°-80°	436.1	3.4
80°-90°	134.9	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°	5646.9	43.6
0°-40°	8613.4	66.5
0°-60°	11679.5	90.2
0°-90°	12948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7978	7978	7978	7978	7978	
5°	7733	7723	7698	7900	7939	732
15°	6960	7012	7174	7380	7637	1960
25°	5918	5977	6171	6588	6876	2706
35°	4456	4577	4838	4939	5147	2808
45°	2914	2982	2580	2449	2517	2245
55°	1343	1277	1178	755	526	1258
65°	855	800	798	607	374	847
75°	454	448	467	403	218	479
85°	123	123	130	128	82	138
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7978.0	7978.0	7978.0	7978.0	7978.0
2.5°	7947.2	7922.5	7862.9	7971.8	7963.6
5°	7733.3	7723.0	7698.4	7899.9	7938.9
7.5°	7612.0	7591.4	7562.7	7784.7	7893.7
10°	7482.5	7507.1	7449.6	7653.1	7830.0
12.5°	7215.2	7281.0	7359.1	7517.4	7751.8
15°	6960.2	7011.6	7174.0	7379.7	7636.7
17.5°	6721.7	6781.3	6921.1	7229.6	7503.0
20°	6450.3	6532.5	6668.2	7063.0	7315.9
22.5°	6170.6	6246.7	6417.4	6840.9	7122.6
25°	5917.7	5977.3	6170.6	6588.0	6875.9
27.5°	5582.5	5693.6	5876.6	6279.6	6581.9
30°	5253.6	5348.1	5566.1	5905.4	6203.5
32.5°	4856.7	4994.5	5235.1	5494.1	5742.9
35°	4455.8	4577.1	4838.2	4939.0	5146.6
37.5°	4163.8	4196.7	4344.7	4332.4	4449.6
40°	3775.2	3841.0	3783.4	3629.2	3762.8
42.5°	3355.7	3433.8	3201.5	3022.6	3069.9
45°	2913.6	2981.5	2580.5	2448.9	2516.8
47.5°	2531.2	2525.0	2080.9	1992.4	1897.9
50°	2000.7	2066.5	1651.1	1486.6	935.6
52.5°	1562.7	1587.4	1361.2	950.0	614.8
55°	1342.7	1276.9	1178.2	754.6	526.4
57.5°	1192.6	1110.3	1044.5	701.2	481.1
60°	1087.7	995.2	945.8	666.2	442.1
62.5°	968.5	896.5	878.0	635.4	407.1
65°	855.4	799.9	797.8	606.6	374.2
67.5°	742.3	711.4	719.7	571.6	337.2
70°	633.3	627.1	633.3	526.4	298.1
72.5°	540.8	534.6	551.1	468.8	255.0
75°	454.4	448.2	466.8	403.0	218.0
77.5°	361.9	366.0	378.3	335.2	183.0
80°	281.7	281.7	296.1	263.2	150.1
82.5°	201.5	203.6	211.8	193.3	117.2
85°	123.4	123.4	129.5	127.5	82.2
87.5°	41.1	47.3	55.5	59.6	41.1
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	17.26	18.62	17.63	18.93	19.24	13.59	14.95	13.96	15.26	15.58
	3H	19.00	20.21	19.38	20.54	20.90	15.57	16.78	15.95	17.11	17.47
	4H	19.67	20.80	20.07	21.15	21.53	16.27	17.40	16.68	17.75	18.13
	6H	20.18	21.22	20.59	21.59	21.98	16.80	17.84	17.21	18.21	18.60
	8H	20.35	21.34	20.78	21.73	22.13	16.98	17.97	17.41	18.36	18.76
	12H	20.46	21.40	20.89	21.78	22.21	17.12	18.06	17.55	18.45	18.88
4H	2H	17.79	18.92	18.19	19.27	19.65	15.22	16.34	15.62	16.69	17.08
	3H	19.77	20.70	20.18	21.10	21.51	17.39	18.32	17.81	18.73	19.13
	4H	20.57	21.41	21.01	21.83	22.27	18.27	19.11	18.71	19.53	19.97
	6H	21.21	21.94	21.68	22.38	22.85	18.92	19.64	19.38	20.09	20.55
	8H	21.43	22.11	21.90	22.56	23.03	19.13	19.80	19.59	20.25	20.72
	12H	21.59	22.19	22.07	22.67	23.14	19.28	19.88	19.77	20.37	20.84
8H	4H	20.86	21.53	21.32	21.98	22.45	18.92	19.60	19.39	20.05	20.52
	6H	21.64	22.19	22.14	22.69	23.17	19.78	20.34	20.29	20.84	21.32
	8H	21.94	22.44	22.46	22.95	23.44	20.11	20.61	20.63	21.12	21.62
	12H	22.18	22.62	22.69	23.11	23.68	20.38	20.82	20.89	21.31	21.88
12H	4H	20.87	21.47	21.36	21.95	22.43	19.00	19.60	19.48	20.08	20.55
	6H	21.69	22.19	22.21	22.70	23.20	19.92	20.42	20.44	20.93	21.43
	8H	22.06	22.50	22.57	22.99	23.56	20.34	20.78	20.85	21.27	21.84