

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: P894801

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-6)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-18HL-LVR-UNV-L930
Description: 18000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

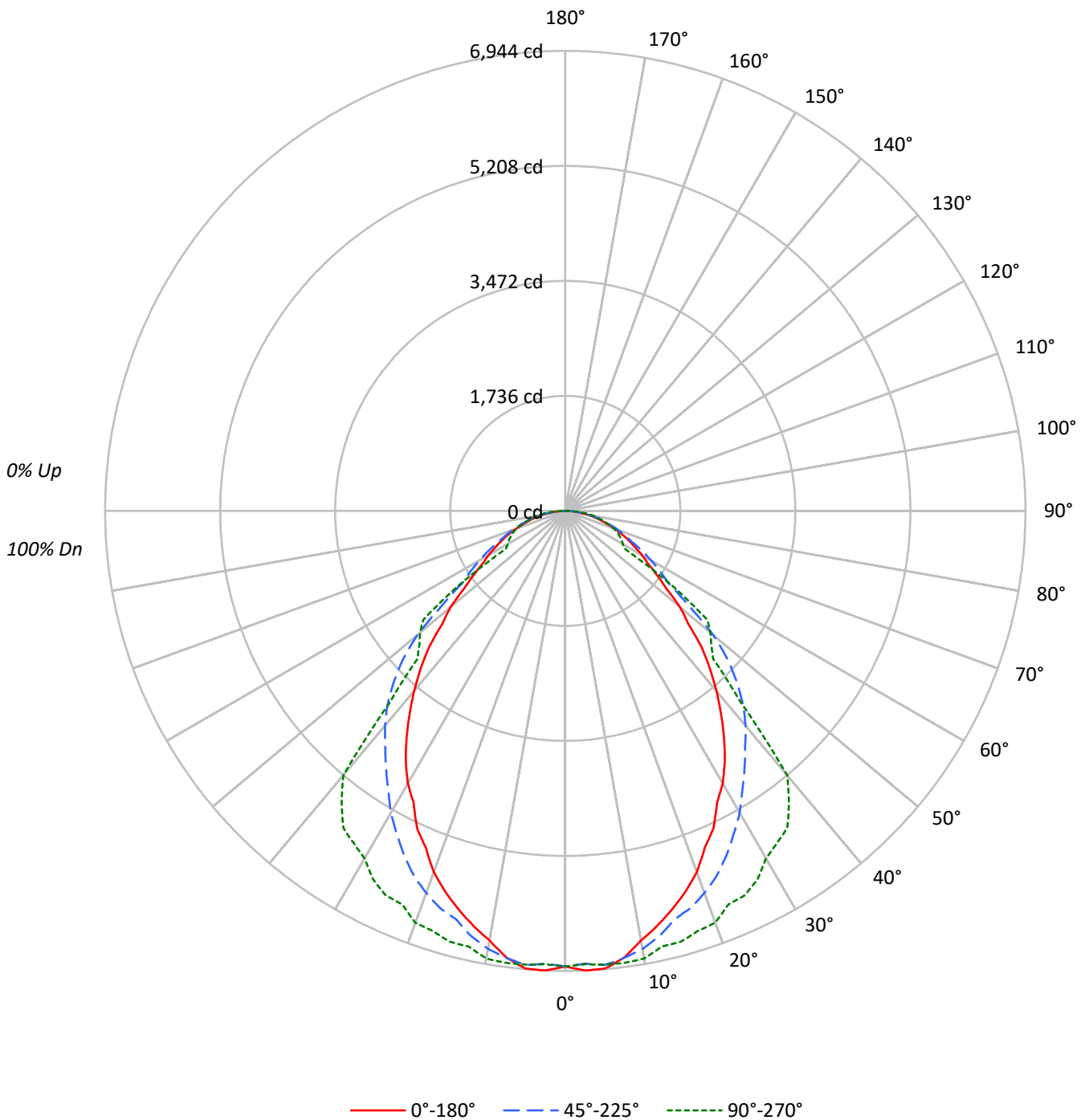
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14395.0 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.32 / 1.26
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 (Ain): 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	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	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	67	67	67	65
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	57	53	62	56	52	52	52	52	50
6	74	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24401	24401	24401
5°	24695	24501	24486
10°	23722	24188	24719
15°	22872	23436	24735
20°	21909	23175	24983
25°	20700	22495	25073
30°	19454	21555	24816
35°	18091	20445	25300
40°	16436	19598	24125
45°	14563	18394	15820
50°	12464	16076	15786
55°	10444	11732	12281
60°	9502	10591	7109
65°	8902	9377	7596
70°	8192	8883	8129
75°	7698	8334	8279
80°	7180	7883	8872
85°	6168	6579	9457

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 18394 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.5	4.5
10°-20°	1828.4	12.7
20°-30°	2664.8	18.5
30°-40°	3048.5	21.2
40°-50°	2607.9	18.1
50°-60°	1719.8	11.9
60°-70°	1039.7	7.2
70°-80°	636.0	4.4
80°-90°	196.5	1.4
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°	5146.7	35.8
0°-40°	8195.2	56.9
0°-60°	12522.8	87.0
0°-90°	14395.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14395.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6877	6877	6877	6877	6877	
5°	6934	6927	6879	6865	6875	650
15°	6227	6299	6380	6788	6734	1750
25°	5288	5368	5746	6237	6404	2419
35°	4177	4387	4720	5461	5841	2602
45°	2902	3126	3666	3425	3153	2222
55°	1688	1783	1896	2248	1985	1536
65°	1060	1087	1117	998	905	1048
75°	562	576	608	636	604	593
85°	152	150	162	192	232	172
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6877.0	6877.0	6877.0	6877.0	6877.0
2.5°	6943.6	6923.4	6840.6	6919.4	6848.7
5°	6933.5	6927.4	6879.0	6864.8	6874.9
7.5°	6800.2	6814.3	6806.3	6957.7	6881.0
10°	6584.1	6612.4	6713.4	6925.4	6860.8
12.5°	6414.5	6436.7	6572.0	6887.1	6735.6
15°	6226.6	6299.3	6380.1	6788.1	6733.6
17.5°	6024.7	6093.3	6285.2	6654.8	6648.7
20°	5802.5	5929.7	6137.8	6481.1	6616.4
22.5°	5501.6	5673.2	5966.1	6402.3	6428.6
25°	5287.5	5368.3	5745.9	6236.7	6404.4
27.5°	4962.3	5115.8	5501.6	5998.4	6275.1
30°	4748.2	4875.5	5261.2	5859.0	6057.0
32.5°	4479.6	4631.1	4976.5	5707.6	5945.9
35°	4176.7	4386.7	4720.0	5461.2	5840.9
37.5°	3857.6	4065.6	4459.4	5257.2	5544.0
40°	3548.5	3726.3	4231.2	5012.8	5208.7
42.5°	3231.5	3423.3	3970.7	4530.1	3918.1
45°	2902.3	3126.4	3665.7	3425.4	3152.7
47.5°	2512.5	2787.1	3328.4	2752.8	2987.1
50°	2258.0	2407.4	2912.4	2595.3	2859.8
52.5°	1920.7	2122.7	2338.8	2423.6	2702.3
55°	1688.4	1783.4	1896.5	2247.9	1985.3
57.5°	1474.4	1559.2	1690.5	1585.4	1058.3
60°	1339.0	1377.4	1492.5	1133.0	1001.8
62.5°	1185.5	1223.9	1308.7	1058.3	961.4
65°	1060.3	1086.6	1116.9	997.7	904.8
67.5°	927.0	941.2	973.5	921.0	850.3
70°	789.7	809.9	856.3	842.2	783.6
72.5°	668.5	686.7	727.1	747.3	692.7
75°	561.5	575.6	607.9	636.2	603.9
77.5°	446.3	460.5	502.9	533.2	519.1
80°	351.4	353.4	385.8	416.1	434.2
82.5°	246.4	250.4	274.7	307.0	343.3
85°	151.5	149.5	161.6	191.9	232.3
87.5°	58.6	56.6	66.6	80.8	119.2
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	18.93	20.40	19.29	20.72	21.03	18.60	20.08	18.97	20.39	20.71
	3H	20.49	21.81	20.86	22.14	22.50	20.22	21.54	20.60	21.87	22.24
	4H	21.08	22.33	21.49	22.68	23.05	20.97	22.21	21.37	22.56	22.94
	6H	21.54	22.69	21.95	23.05	23.45	21.64	22.78	22.05	23.15	23.54
	8H	21.69	22.78	22.12	23.17	23.58	21.91	23.00	22.34	23.39	23.80
	12H	21.79	22.84	22.22	23.22	23.65	22.13	23.18	22.57	23.56	23.99
4H	2H	19.52	20.76	19.92	21.11	21.49	19.26	20.50	19.66	20.85	21.23
	3H	21.31	22.34	21.72	22.74	23.14	21.15	22.18	21.56	22.58	22.98
	4H	22.03	22.96	22.47	23.38	23.82	22.04	22.97	22.48	23.39	23.83
	6H	22.62	23.42	23.08	23.87	24.33	22.85	23.66	23.31	24.10	24.56
	8H	22.81	23.57	23.28	24.01	24.48	23.18	23.93	23.64	24.38	24.84
	12H	22.95	23.63	23.44	24.10	24.58	23.45	24.12	23.93	24.60	25.08
8H	4H	22.36	23.11	22.82	23.55	24.02	22.37	23.12	22.83	23.56	24.03
	6H	23.07	23.69	23.56	24.18	24.66	23.31	23.94	23.81	24.43	24.91
	8H	23.34	23.90	23.85	24.41	24.90	23.73	24.29	24.25	24.80	25.29
	12H	23.54	24.04	24.05	24.53	25.10	24.10	24.60	24.61	25.09	25.65
12H	4H	22.40	23.07	22.88	23.55	24.02	22.39	23.06	22.87	23.54	24.01
	6H	23.14	23.70	23.65	24.21	24.70	23.37	23.93	23.88	24.44	24.93
	8H	23.46	23.96	23.97	24.45	25.02	23.85	24.34	24.36	24.84	25.40