

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: P894804

Luminaire Tested: 8TMB-18HL-LVR-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894804
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-L950
Description: 18000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

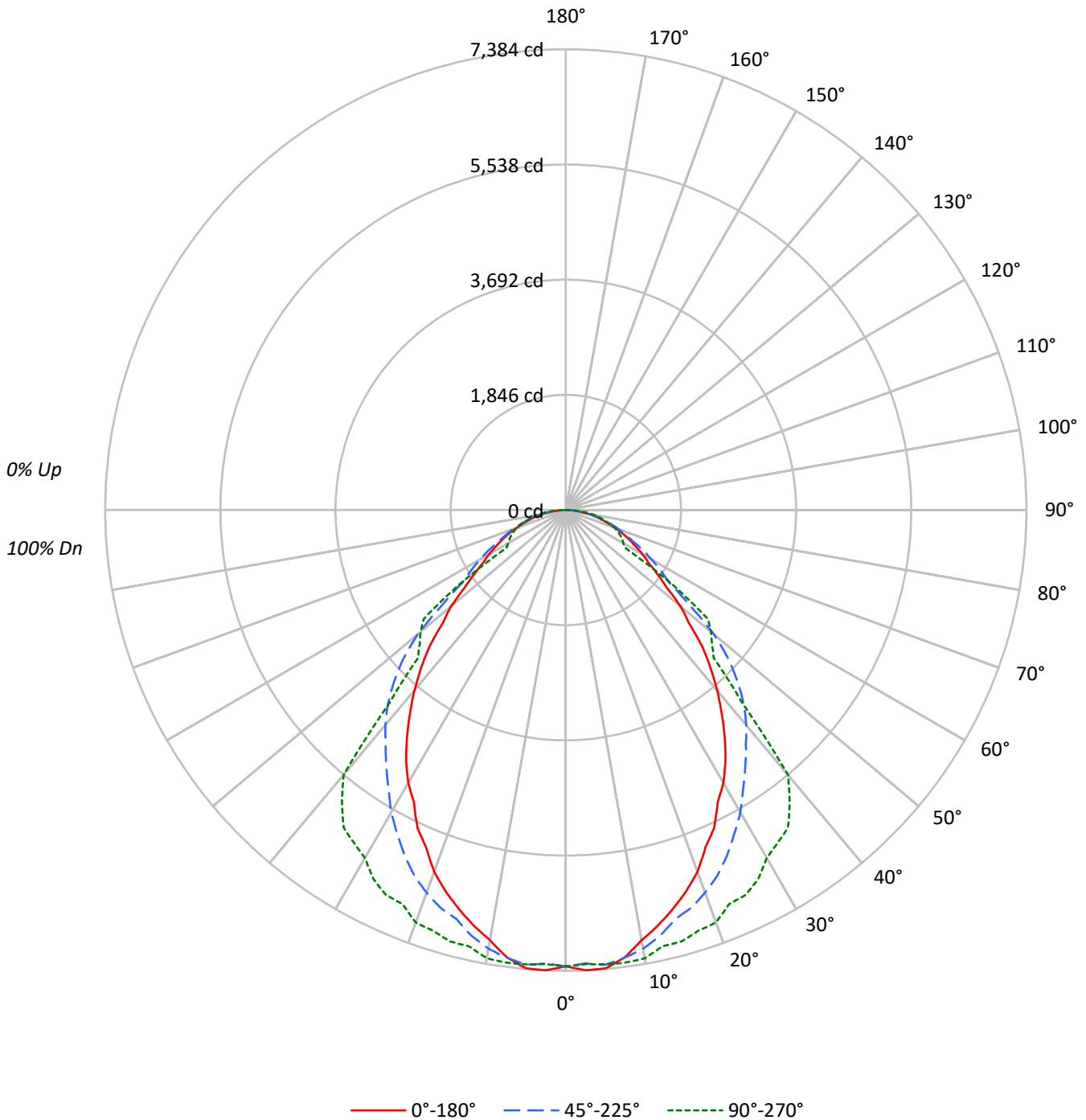
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15308.0 lumens
Efficiency: N/A
Efficacy: 113.6 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°	25948	25948	25948
5°	26261	26055	26040
10°	25226	25722	26286
15°	24323	24923	26303
20°	23299	24645	26567
25°	22013	23922	26663
30°	20688	22922	26389
35°	19239	21741	26904
40°	17478	20841	25656
45°	15487	19560	16823
50°	13254	17096	16787
55°	11107	12475	13060
60°	10105	11263	7560
65°	9467	9971	8078
70°	8712	9448	8645
75°	8186	8863	8804
80°	7636	8382	9436
85°	6558	6994	10055

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 19560 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	694.9	4.5
10°-20°	1944.4	12.7
20°-30°	2833.8	18.5
30°-40°	3241.9	21.2
40°-50°	2773.3	18.1
50°-60°	1828.8	11.9
60°-70°	1105.6	7.2
70°-80°	676.4	4.4
80°-90°	208.9	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°	5473.1	35.8
0°-40°	8715.0	56.9
0°-60°	13317.1	87.0
0°-90°	15308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15308.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7313	7313	7313	7313	7313	
5°	7373	7367	7315	7300	7311	691
15°	6622	6699	6785	7219	7161	1861
25°	5623	5709	6110	6632	6810	2572
35°	4442	4665	5019	5808	6211	2767
45°	3086	3325	3898	3643	3353	2363
55°	1796	1896	2017	2390	2111	1633
65°	1128	1156	1188	1061	962	1115
75°	597	612	646	676	642	630
85°	161	159	172	204	247	183
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7313.1	7313.1	7313.1	7313.1	7313.1
2.5°	7384.0	7362.5	7274.5	7358.2	7283.1
5°	7373.3	7366.8	7315.3	7300.2	7311.0
7.5°	7231.5	7246.5	7238.0	7399.0	7317.4
10°	7001.7	7031.8	7139.2	7364.7	7295.9
12.5°	6821.3	6844.9	6988.8	7323.9	7162.8
15°	6621.5	6698.9	6784.8	7218.6	7160.6
17.5°	6406.8	6479.8	6683.8	7076.9	7070.4
20°	6170.5	6305.8	6527.0	6892.2	7036.1
22.5°	5850.5	6033.1	6344.5	6808.4	6836.3
25°	5622.8	5708.7	6110.4	6632.3	6810.5
27.5°	5277.0	5440.3	5850.5	6378.8	6673.1
30°	5049.4	5184.7	5594.9	6230.7	6441.1
32.5°	4763.7	4924.8	5292.1	6069.6	6323.0
35°	4441.6	4664.9	5019.3	5807.5	6211.3
37.5°	4102.2	4323.4	4742.3	5590.6	5895.6
40°	3773.6	3962.6	4499.6	5330.7	5539.1
42.5°	3436.4	3640.5	4222.5	4817.4	4166.7
45°	3086.3	3324.7	3898.2	3642.6	3352.7
47.5°	2671.8	2963.9	3539.5	2927.4	3176.5
50°	2401.2	2560.1	3097.1	2759.9	3041.2
52.5°	2042.5	2257.3	2487.1	2577.3	2873.7
55°	1795.5	1896.5	2016.7	2390.5	2111.2
57.5°	1567.9	1658.1	1797.7	1686.0	1125.4
60°	1424.0	1464.8	1587.2	1204.9	1065.3
62.5°	1260.7	1301.5	1391.7	1125.4	1022.3
65°	1127.6	1155.5	1187.7	1061.0	962.2
67.5°	985.8	1000.9	1035.2	979.4	904.2
70°	839.8	861.3	910.7	895.6	833.3
72.5°	710.9	730.2	773.2	794.7	736.7
75°	597.1	612.1	646.5	676.5	642.2
77.5°	474.7	489.7	534.8	567.0	552.0
80°	373.7	375.9	410.2	442.4	461.8
82.5°	262.0	266.3	292.1	326.5	365.1
85°	161.1	158.9	171.8	204.0	247.0
87.5°	62.3	60.1	70.9	85.9	126.7
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	19.14	20.62	19.50	20.93	21.25	18.82	20.30	19.18	20.61	20.92
	3H	20.70	22.02	21.08	22.35	22.71	20.43	21.76	20.81	22.09	22.45
	4H	21.30	22.54	21.70	22.89	23.27	21.18	22.42	21.58	22.77	23.15
	6H	21.76	22.90	22.17	23.27	23.66	21.85	23.00	22.26	23.36	23.76
	8H	21.91	23.00	22.34	23.39	23.79	22.13	23.22	22.56	23.61	24.01
	12H	22.01	23.05	22.44	23.43	23.86	22.35	23.39	22.78	23.77	24.20
4H	2H	19.73	20.97	20.13	21.32	21.70	19.48	20.72	19.88	21.07	21.45
	3H	21.52	22.55	21.93	22.95	23.35	21.36	22.39	21.77	22.79	23.19
	4H	22.25	23.17	22.68	23.59	24.03	22.26	23.18	22.69	23.60	24.04
	6H	22.83	23.64	23.29	24.08	24.54	23.06	23.87	23.52	24.31	24.77
	8H	23.03	23.78	23.49	24.23	24.69	23.39	24.15	23.86	24.59	25.06
	12H	23.17	23.84	23.65	24.32	24.79	23.67	24.34	24.15	24.82	25.29
8H	4H	22.57	23.32	23.03	23.77	24.23	22.58	23.33	23.04	23.78	24.24
	6H	23.28	23.90	23.78	24.40	24.87	23.53	24.15	24.03	24.64	25.12
	8H	23.55	24.11	24.06	24.62	25.11	23.95	24.51	24.46	25.02	25.51
	12H	23.76	24.26	24.27	24.75	25.31	24.31	24.81	24.82	25.30	25.87
12H	4H	22.61	23.28	23.09	23.76	24.23	22.60	23.28	23.09	23.76	24.23
	6H	23.35	23.91	23.86	24.42	24.91	23.58	24.14	24.10	24.65	25.14
	8H	23.68	24.18	24.19	24.67	25.23	24.06	24.56	24.57	25.05	25.61