

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: P894803

Luminaire Tested: 8TMB-18HL-LVR-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894803
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-L940
Description: 18000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

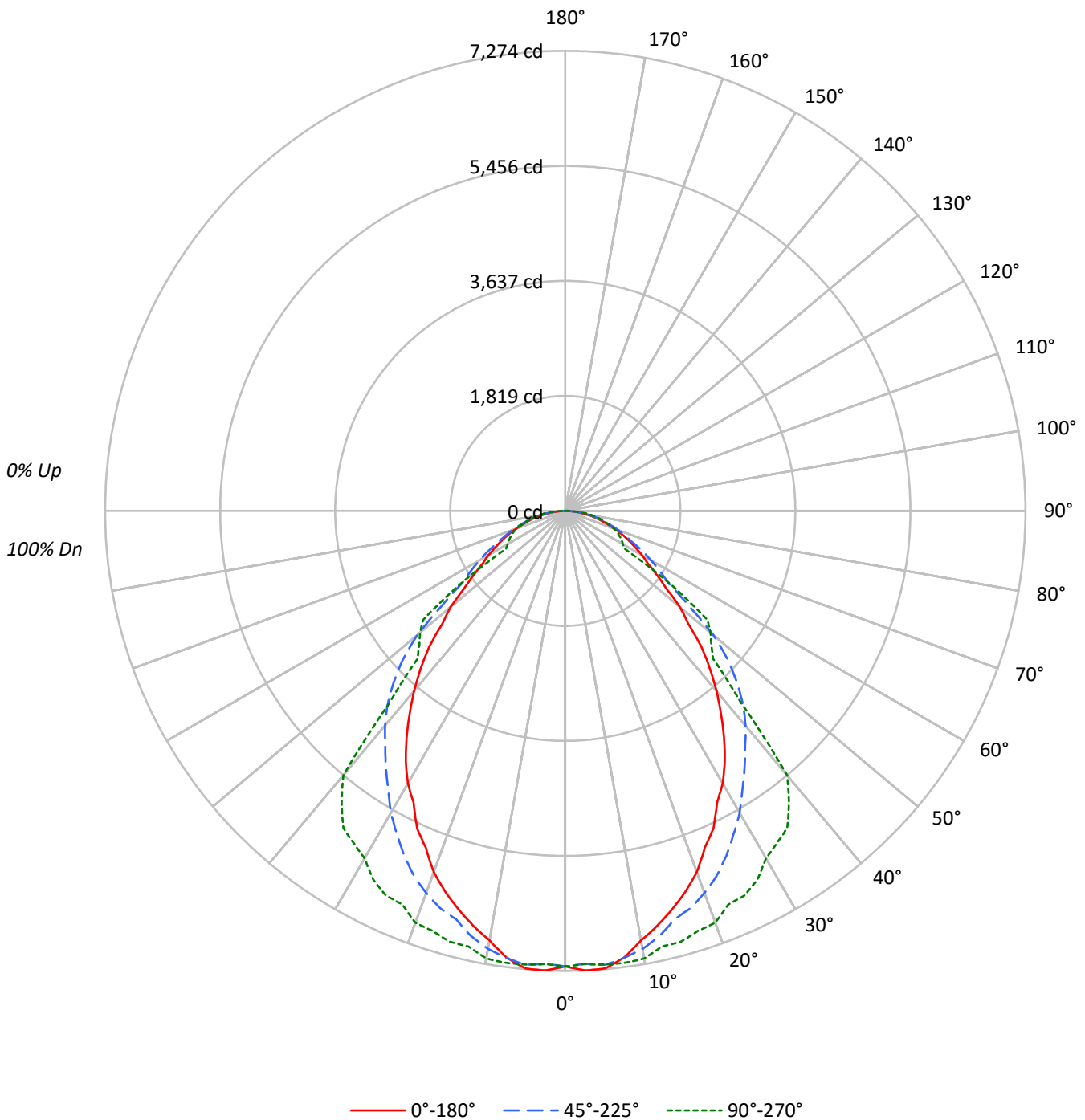
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15079.0 lumens
Efficiency: N/A
Efficacy: 111.9 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	87	
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	77	75	
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	67	65	
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	57	
5	80	68	60	54	78	67	60	54	65	59	53	63	57	53	62	56	52	52	50	
6	74	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	40	
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	36	
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	35	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25560	25560	25560
5°	25869	25665	25650
10°	24849	25337	25893
15°	23959	24550	25910
20°	22950	24276	26170
25°	21684	23564	26264
30°	20378	22580	25995
35°	18951	21416	26502
40°	17217	20529	25272
45°	15255	19268	16571
50°	13056	16840	16536
55°	10941	12289	12865
60°	9954	11095	7447
65°	9325	9822	7957
70°	8581	9306	8516
75°	8062	8730	8672
80°	7521	8257	9295
85°	6461	6892	9905

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 19268 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	684.5	4.5
10°-20°	1915.3	12.7
20°-30°	2791.4	18.5
30°-40°	3193.4	21.2
40°-50°	2731.8	18.1
50°-60°	1801.5	11.9
60°-70°	1089.1	7.2
70°-80°	666.3	4.4
80°-90°	205.8	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°	5391.3	35.8
0°-40°	8584.6	56.9
0°-60°	13117.9	87.0
0°-90°	15079.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15079.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7204	7204	7204	7204	7204	
5°	7263	7257	7206	7191	7202	681
15°	6522	6599	6683	7111	7054	1834
25°	5539	5623	6019	6533	6709	2534
35°	4375	4595	4944	5721	6118	2726
45°	3040	3275	3840	3588	3302	2327
55°	1769	1868	1987	2355	2080	1609
65°	1111	1138	1170	1045	948	1098
75°	588	603	637	666	633	621
85°	159	157	169	201	243	180
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7203.7	7203.7	7203.7	7203.7	7203.7
2.5°	7273.5	7252.4	7165.6	7248.2	7174.1
5°	7263.0	7256.6	7205.8	7191.0	7201.6
7.5°	7123.3	7138.1	7129.7	7288.4	7208.0
10°	6897.0	6926.6	7032.4	7254.5	7186.8
12.5°	6719.2	6742.5	6884.3	7214.3	7055.6
15°	6522.5	6598.7	6683.3	7110.6	7053.5
17.5°	6310.9	6382.9	6583.8	6971.0	6964.7
20°	6078.2	6211.5	6429.4	6789.1	6930.8
22.5°	5763.0	5942.8	6249.6	6706.6	6734.1
25°	5538.7	5623.3	6019.0	6533.1	6708.7
27.5°	5198.1	5358.9	5763.0	6283.4	6573.3
30°	4973.8	5107.1	5511.2	6137.4	6344.8
32.5°	4692.5	4851.1	5212.9	5978.8	6228.4
35°	4375.1	4595.2	4944.2	5720.7	6118.4
37.5°	4040.9	4258.8	4671.3	5507.0	5807.4
40°	3717.2	3903.3	4432.2	5251.0	5456.2
42.5°	3385.0	3586.0	4159.3	4745.4	4104.3
45°	3040.2	3275.0	3839.9	3588.1	3302.5
47.5°	2631.8	2919.6	3486.6	2883.6	3129.0
50°	2365.3	2521.8	3050.7	2718.6	2995.7
52.5°	2012.0	2223.5	2449.9	2538.8	2830.7
55°	1768.7	1868.1	1986.6	2354.7	2079.7
57.5°	1544.4	1633.3	1770.8	1660.8	1108.6
60°	1402.7	1442.9	1563.5	1186.9	1049.4
62.5°	1241.9	1282.1	1370.9	1108.6	1007.0
65°	1110.7	1138.2	1169.9	1045.1	947.8
67.5°	971.1	985.9	1019.7	964.7	890.7
70°	827.2	848.4	897.0	882.2	820.9
72.5°	700.3	719.3	761.6	782.8	725.7
75°	588.1	603.0	636.8	666.4	632.6
77.5°	467.6	482.4	526.8	558.5	543.7
80°	368.1	370.2	404.1	435.8	454.9
82.5°	258.1	262.3	287.7	321.6	359.7
85°	158.7	156.6	169.3	201.0	243.3
87.5°	61.4	59.2	69.8	84.6	124.8
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	19.09	20.57	19.45	20.88	21.19	18.76	20.24	19.13	20.56	20.87
	3H	20.65	21.97	21.02	22.30	22.66	20.38	21.71	20.76	22.03	22.40
	4H	21.25	22.49	21.65	22.84	23.22	21.13	22.37	21.53	22.72	23.10
	6H	21.70	22.85	22.12	23.22	23.61	21.80	22.94	22.21	23.31	23.70
	8H	21.86	22.95	22.28	23.34	23.74	22.08	23.17	22.50	23.56	23.96
	12H	21.95	23.00	22.39	23.38	23.81	22.30	23.34	22.73	23.72	24.15
4H	2H	19.68	20.92	20.08	21.27	21.65	19.43	20.67	19.83	21.02	21.39
	3H	21.47	22.50	21.88	22.90	23.30	21.31	22.34	21.72	22.74	23.14
	4H	22.20	23.12	22.63	23.54	23.98	22.21	23.13	22.64	23.55	23.99
	6H	22.78	23.58	23.24	24.03	24.49	23.01	23.82	23.47	24.26	24.72
	8H	22.98	23.73	23.44	24.17	24.64	23.34	24.09	23.81	24.54	25.01
	12H	23.11	23.79	23.60	24.27	24.74	23.61	24.29	24.10	24.76	25.24
8H	4H	22.52	23.27	22.98	23.71	24.18	22.53	23.28	22.99	23.72	24.19
	6H	23.23	23.85	23.72	24.34	24.82	23.48	24.10	23.97	24.59	25.07
	8H	23.50	24.06	24.01	24.57	25.06	23.89	24.45	24.41	24.97	25.45
	12H	23.71	24.20	24.22	24.70	25.26	24.26	24.76	24.77	25.25	25.82
12H	4H	22.56	23.23	23.04	23.71	24.18	22.55	23.22	23.03	23.70	24.18
	6H	23.30	23.86	23.81	24.37	24.86	23.53	24.09	24.04	24.60	25.09
	8H	23.63	24.12	24.14	24.62	25.18	24.01	24.50	24.52	25.00	25.56