

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: P894627

Luminaire Tested: 8TMB-14HL-LVRF-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-5)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-14HL-LVRF-UNV-L940
Description: 14000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 4000K (C)
Light Source: -
Ballast/Driver: -

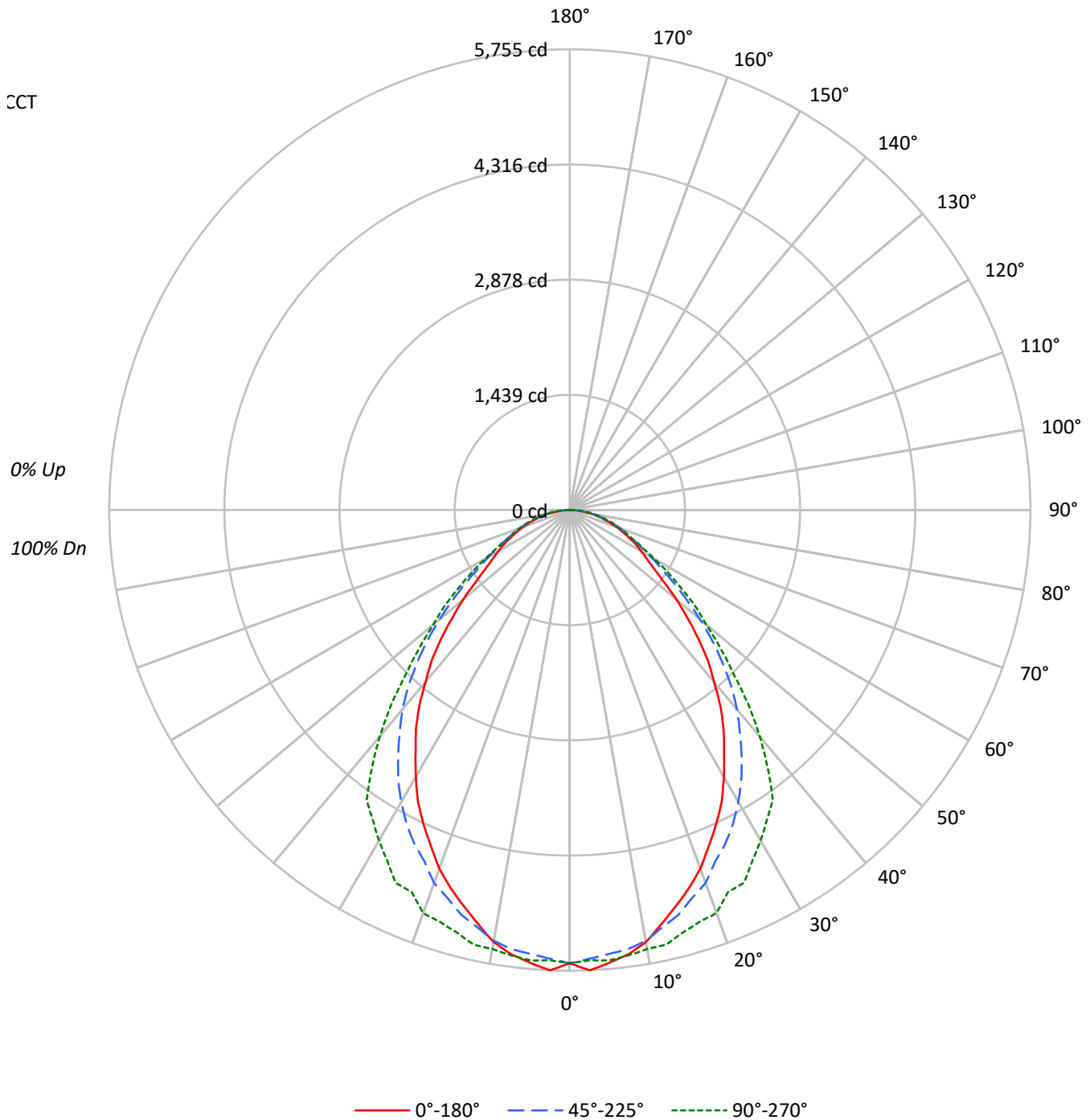
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11480.0 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.25 / 1.21
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 103.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 5.03
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	87	87	
2	102	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75	75	
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65	65	
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57	57	
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	50	50	
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45	45	
7	70	57	49	43	68	56	49	43	55	48	43	53	47	42	52	46	42	40	40	
8	65	52	44	39	64	52	44	39	50	44	39	49	43	39	48	43	38	37	37	
9	61	48	41	36	60	48	40	35	47	40	35	46	40	35	45	39	35	33	33	
10	57	45	37	33	56	44	37	32	43	37	32	43	36	32	42	36	32	30	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20089	20089	20089
5°	20220	19828	20112
10°	19747	19686	20064
15°	18814	19231	20064
20°	17998	18720	20228
25°	16944	18004	20125
30°	15763	17254	19535
35°	14516	16196	19158
40°	12983	15053	17107
45°	11381	13539	14507
50°	9605	11698	12277
55°	7968	9790	10470
60°	7327	8324	8636
65°	6863	7318	7376
70°	6391	6936	6883
75°	5963	6473	6706
80°	5568	6017	6432
85°	4686	5101	7096

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 14507 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.4	4.7
10°-20°	1490.7	13.0
20°-30°	2146.9	18.7
30°-40°	2370.2	20.6
40°-50°	2033.7	17.7
50°-60°	1385.5	12.1
60°-70°	871.6	7.6
70°-80°	496.2	4.3
80°-90°	150.8	1.3
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°	4172.0	36.3
0°-40°	6542.1	57.0
0°-60°	9961.4	86.8
0°-90°	11480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11480.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5662	5662	5662	5662	5662	
5°	5677	5655	5567	5684	5647	536
15°	5122	5176	5235	5472	5462	1442
25°	4328	4414	4599	4970	5141	1988
35°	3351	3482	3739	4147	4423	2085
45°	2268	2419	2698	2861	2891	1748
55°	1288	1368	1583	1659	1693	1183
65°	818	831	872	914	878	812
75°	435	438	472	493	489	464
85°	115	118	125	149	174	132
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5661.9	5661.9	5661.9	5661.9	5661.9
2.5°	5755.0	5695.8	5611.1	5692.4	5629.7
5°	5677.1	5655.1	5567.1	5683.9	5646.7
7.5°	5597.6	5550.2	5535.0	5660.2	5611.1
10°	5480.8	5453.7	5463.9	5624.7	5568.8
12.5°	5296.3	5314.9	5338.6	5543.4	5560.3
15°	5121.9	5176.1	5235.4	5472.3	5462.2
17.5°	4951.0	5025.5	5081.3	5386.0	5394.5
20°	4766.5	4808.8	4957.8	5252.3	5357.2
22.5°	4538.0	4620.9	4749.6	5116.9	5164.3
25°	4328.1	4414.4	4598.9	4969.6	5140.6
27.5°	4108.1	4187.6	4416.1	4795.3	4940.8
30°	3847.4	3954.0	4211.3	4597.2	4768.2
32.5°	3586.7	3742.4	3989.6	4385.6	4583.7
35°	3351.4	3481.8	3739.1	4147.0	4422.9
37.5°	3090.8	3227.9	3488.5	3886.3	4062.4
40°	2803.0	2950.3	3249.9	3571.5	3693.4
42.5°	2555.9	2682.8	2984.1	3210.9	3307.4
45°	2268.1	2418.8	2698.1	2860.6	2891.0
47.5°	1990.6	2163.2	2413.7	2489.9	2549.1
50°	1740.0	1875.5	2119.2	2166.6	2224.1
52.5°	1484.5	1628.3	1841.6	1889.0	1973.6
55°	1288.1	1367.7	1582.6	1658.8	1692.6
57.5°	1144.2	1195.0	1347.3	1443.8	1454.0
60°	1032.5	1057.9	1173.0	1245.8	1217.0
62.5°	929.3	949.6	1007.1	1063.0	1025.7
65°	817.5	831.1	871.7	914.0	878.5
67.5°	712.6	727.8	765.1	795.5	765.1
70°	616.1	628.0	668.6	682.1	663.5
72.5°	526.4	531.5	565.3	589.0	577.2
75°	435.0	438.4	472.2	492.6	489.2
77.5°	352.1	357.1	385.9	404.5	394.4
80°	272.5	275.9	294.5	321.6	314.8
82.5°	191.3	198.0	209.9	233.6	252.2
85°	115.1	118.5	125.3	149.0	174.3
87.5°	44.0	47.4	50.8	62.6	82.9
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	17.88	19.36	18.24	19.67	19.99	19.24	20.72	19.60	21.03	21.35
	3H	19.46	20.78	19.84	21.11	21.47	20.52	21.85	20.90	22.18	22.54
	4H	20.06	21.30	20.46	21.65	22.03	21.08	22.32	21.48	22.67	23.05
	6H	20.53	21.68	20.95	22.05	22.44	21.53	22.68	21.94	23.04	23.44
	8H	20.69	21.78	21.12	22.17	22.57	21.72	22.81	22.14	23.20	23.60
	12H	20.79	21.83	21.22	22.21	22.64	21.87	22.92	22.30	23.30	23.73
4H	2H	18.49	19.73	18.89	20.08	20.46	19.61	20.85	20.01	21.20	21.58
	3H	20.30	21.32	20.71	21.73	22.13	21.16	22.19	21.57	22.59	22.99
	4H	21.02	21.95	21.45	22.36	22.80	21.87	22.79	22.30	23.21	23.65
	6H	21.62	22.42	22.07	22.86	23.33	22.47	23.28	22.93	23.72	24.18
	8H	21.82	22.57	22.28	23.02	23.48	22.72	23.47	23.19	23.92	24.39
	12H	21.96	22.63	22.44	23.11	23.58	22.94	23.61	23.42	24.09	24.56
8H	4H	21.35	22.10	21.81	22.54	23.01	22.10	22.85	22.56	23.30	23.76
	6H	22.07	22.69	22.57	23.18	23.66	22.84	23.47	23.34	23.96	24.44
	8H	22.35	22.91	22.86	23.42	23.91	23.17	23.73	23.69	24.25	24.73
	12H	22.56	23.05	23.07	23.55	24.11	23.48	23.98	23.99	24.47	25.03
12H	4H	21.38	22.06	21.87	22.53	23.01	22.11	22.78	22.60	23.26	23.74
	6H	22.14	22.70	22.65	23.21	23.70	22.88	23.44	23.40	23.95	24.44
	8H	22.47	22.97	22.98	23.46	24.03	23.27	23.77	23.78	24.26	24.82