

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: P894609

Luminaire Tested: 8TMB-14HL-LVR-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894609
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-14HL-LVR-UNV-L930
Description: 14000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

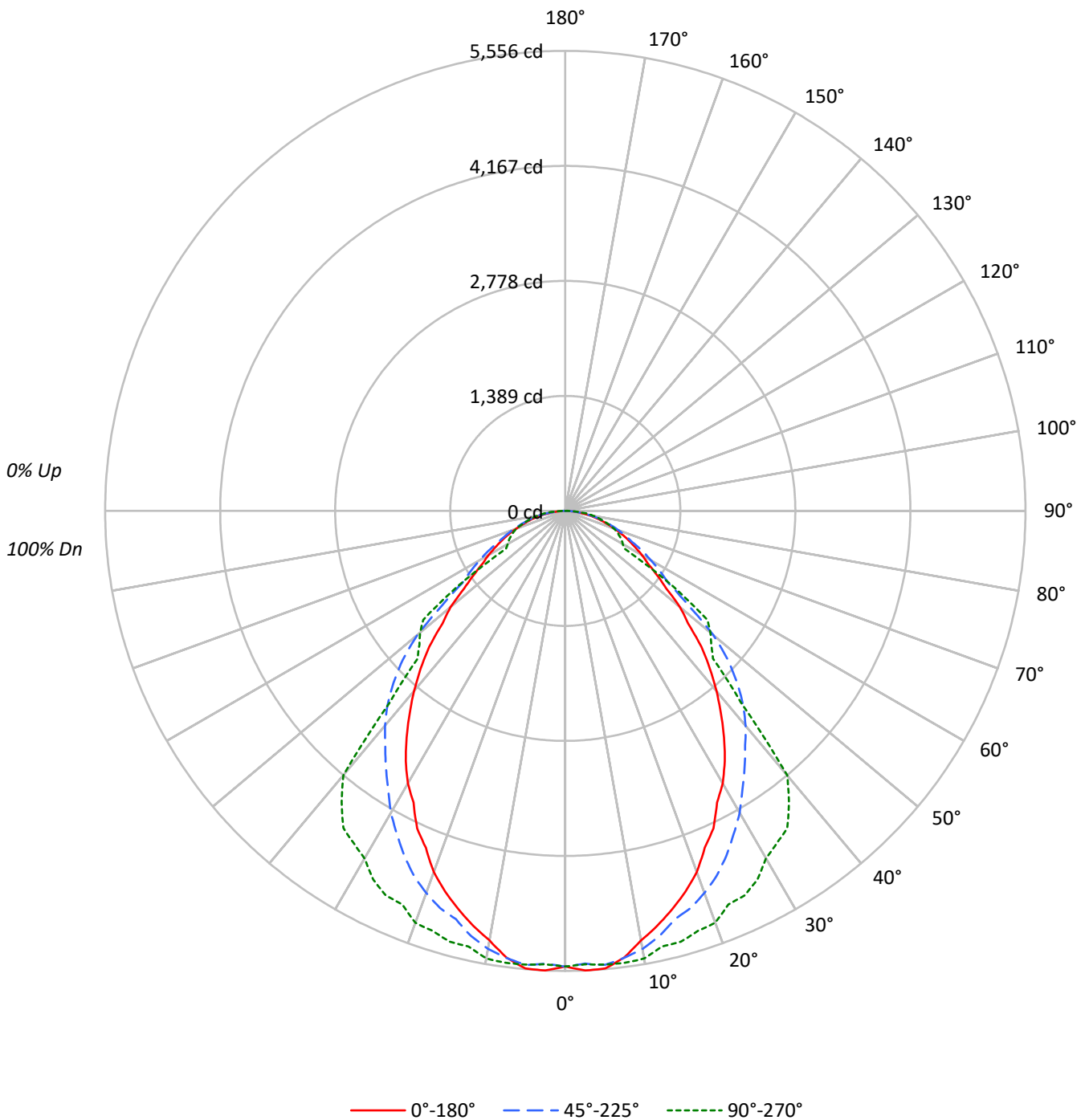
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11518.0 lumens
Efficiency: N/A
Efficacy: 111.2 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): 103.6
Input Voltage (V): 120
Input Current (A_{in}): 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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CATALOG NUMBER: 8TMB-14HL-LVR-UNV-L930

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°	19524	19524	19524
5°	19760	19604	19592
10°	18981	19353	19778
15°	18301	18752	19791
20°	17531	18544	19990
25°	16563	17999	20062
30°	15565	17247	19856
35°	14475	16358	20243
40°	13151	15681	19304
45°	11652	14718	12658
50°	9973	12863	12631
55°	8357	9387	9826
60°	7603	8474	5688
65°	7123	7503	6078
70°	6555	7108	6505
75°	6159	6668	6624
80°	5746	6308	7098
85°	4934	5264	7564

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 14718 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.9	4.5
10°-20°	1463.0	12.7
20°-30°	2132.2	18.5
30°-40°	2439.2	21.2
40°-50°	2086.7	18.1
50°-60°	1376.0	11.9
60°-70°	831.9	7.2
70°-80°	508.9	4.4
80°-90°	157.2	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°	4118.1	35.8
0°-40°	6557.3	56.9
0°-60°	10020.0	87.0
0°-90°	11518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11518.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5502	5502	5502	5502	5502	
5°	5548	5543	5504	5493	5501	520
15°	4982	5040	5105	5431	5388	1401
25°	4231	4295	4598	4990	5124	1935
35°	3342	3510	3777	4370	4674	2082
45°	2322	2502	2933	2741	2523	1778
55°	1351	1427	1517	1799	1588	1229
65°	848	869	894	798	724	839
75°	449	461	486	509	483	474
85°	121	120	129	154	186	138
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5502.5	5502.5	5502.5	5502.5	5502.5
2.5°	5555.8	5539.7	5473.4	5536.5	5479.9
5°	5547.8	5542.9	5504.1	5492.8	5500.9
7.5°	5441.1	5452.4	5446.0	5567.2	5505.8
10°	5268.2	5290.8	5371.6	5541.3	5489.6
12.5°	5132.5	5150.2	5258.5	5510.6	5389.4
15°	4982.2	5040.3	5105.0	5431.4	5387.8
17.5°	4820.6	4875.5	5029.0	5324.8	5319.9
20°	4642.8	4744.6	4911.1	5185.8	5294.1
22.5°	4402.0	4539.4	4773.7	5122.8	5143.8
25°	4230.7	4295.4	4597.6	4990.2	5124.4
27.5°	3970.5	4093.4	4402.0	4799.6	5020.9
30°	3799.2	3901.1	4209.7	4688.1	4846.4
32.5°	3584.3	3705.5	3981.9	4566.8	4757.5
35°	3341.9	3510.0	3776.6	4369.7	4673.5
37.5°	3086.6	3253.0	3568.2	4206.5	4436.0
40°	2839.3	2981.5	3385.5	4010.9	4167.7
42.5°	2585.6	2739.1	3177.1	3624.7	3135.1
45°	2322.2	2501.6	2933.1	2740.8	2522.6
47.5°	2010.3	2230.1	2663.2	2202.6	2390.1
50°	1806.7	1926.3	2330.3	2076.6	2288.3
52.5°	1536.8	1698.4	1871.3	1939.2	2162.2
55°	1351.0	1426.9	1517.4	1798.6	1588.5
57.5°	1179.7	1247.6	1352.6	1268.6	846.8
60°	1071.4	1102.1	1194.2	906.6	801.5
62.5°	948.6	979.3	1047.2	846.8	769.2
65°	848.4	869.4	893.7	798.3	724.0
67.5°	741.7	753.1	778.9	736.9	680.3
70°	631.9	648.0	685.2	673.9	627.0
72.5°	534.9	549.4	581.8	597.9	554.3
75°	449.3	460.6	486.4	509.0	483.2
77.5°	357.1	368.5	402.4	426.6	415.3
80°	281.2	282.8	308.7	332.9	347.4
82.5°	197.2	200.4	219.8	245.6	274.7
85°	121.2	119.6	129.3	153.5	185.8
87.5°	46.9	45.2	53.3	64.6	95.3
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	18.15	19.63	18.52	19.94	20.26	17.83	19.31	18.19	19.62	19.94
	3H	19.71	21.04	20.09	21.36	21.73	19.45	20.77	19.82	21.10	21.46
	4H	20.31	21.55	20.71	21.90	22.28	20.19	21.43	20.59	21.78	22.16
	6H	20.77	21.91	21.18	22.28	22.67	20.86	22.01	21.27	22.38	22.77
	8H	20.92	22.01	21.35	22.40	22.80	21.14	22.23	21.57	22.62	23.02
	12H	21.02	22.06	21.45	22.44	22.87	21.36	22.40	21.79	22.79	23.22
4H	2H	18.74	19.98	19.14	20.33	20.71	18.49	19.73	18.89	20.08	20.46
	3H	20.53	21.56	20.94	21.96	22.36	20.37	21.40	20.78	21.80	22.20
	4H	21.26	22.19	21.69	22.60	23.04	21.27	22.19	21.70	22.61	23.05
	6H	21.84	22.65	22.30	23.09	23.55	22.08	22.88	22.53	23.32	23.78
	8H	22.04	22.79	22.50	23.24	23.71	22.40	23.16	22.87	23.60	24.07
	12H	22.18	22.85	22.66	23.33	23.80	22.68	23.35	23.16	23.83	24.30
8H	4H	21.58	22.33	22.05	22.78	23.25	21.59	22.34	22.05	22.79	23.26
	6H	22.29	22.91	22.79	23.41	23.88	22.54	23.16	23.04	23.66	24.13
	8H	22.56	23.12	23.08	23.63	24.12	22.96	23.52	23.47	24.03	24.52
	12H	22.77	23.27	23.28	23.76	24.33	23.32	23.82	23.83	24.31	24.88
12H	4H	21.62	22.29	22.10	22.77	23.24	21.62	22.29	22.10	22.77	23.24
	6H	22.36	22.92	22.88	23.43	23.92	22.59	23.15	23.11	23.66	24.15
	8H	22.69	23.19	23.20	23.68	24.25	23.07	23.57	23.58	24.06	24.63