

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: P894625

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894625
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-L930
Description: 14000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 3000K (C)
Light Source: -
Ballast/Driver: -

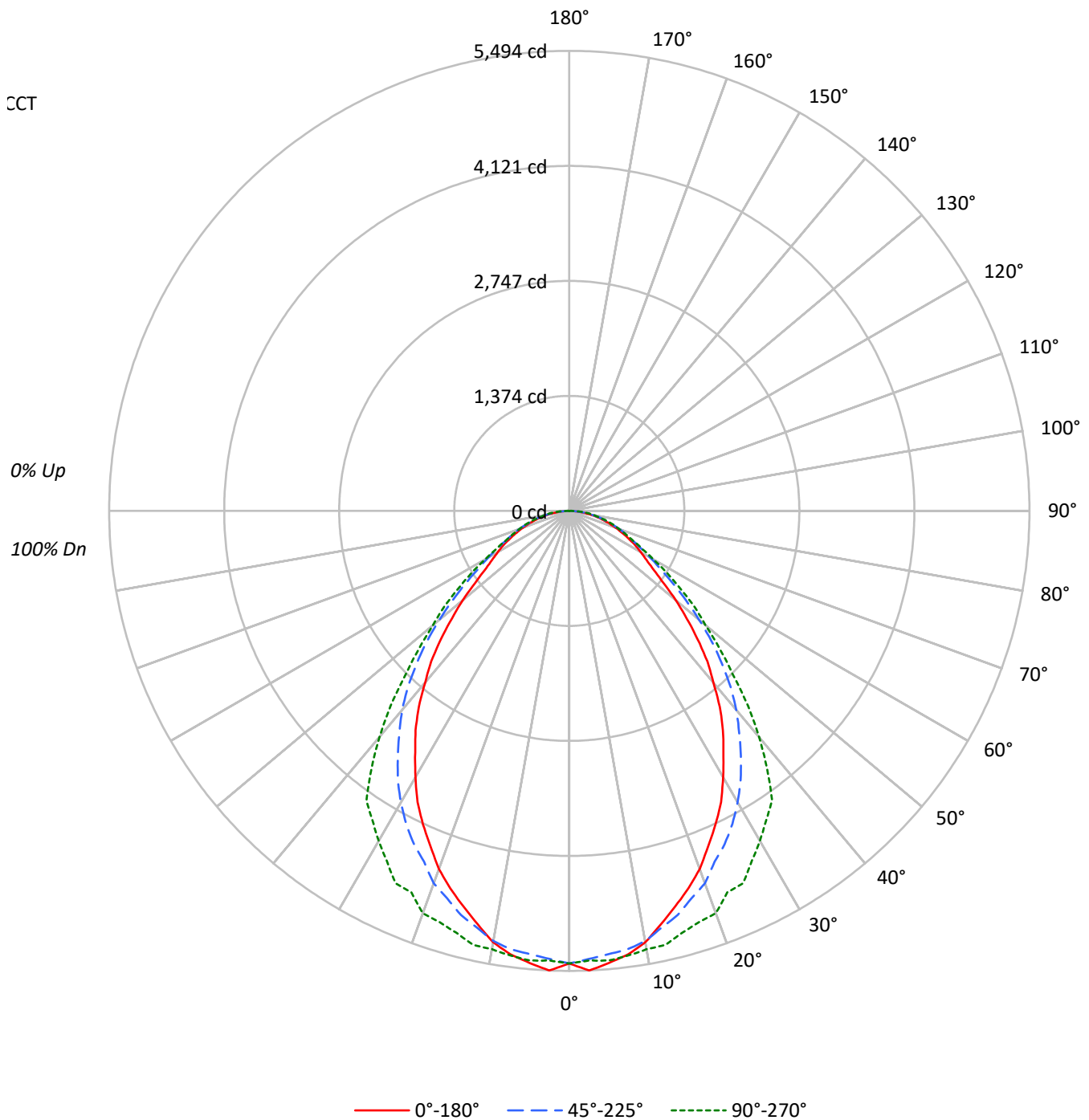
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10959.0 lumens
Efficiency: N/A
Efficacy: 105.8 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 (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

TEST NUMBER: P894625
CATALOG NUMBER: 8TMB-14HL-LVRF-UNV-L930

Luminous Intensity Polar Plot





TEST NUMBER: P894625
 CATALOG NUMBER: 8TMB-14HL-LVRF-UNV-L930

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	102	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	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	64	52	44	39	50	44	39	49	43	39	48	43	38	38	38	38	37
9	61	48	41	36	60	48	40	35	47	40	35	46	40	35	45	39	35	35	35	35	33
10	57	45	37	33	56	44	37	32	43	37	32	43	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19177	19177	19177
5°	19303	18929	19199
10°	18851	18792	19153
15°	17961	18358	19154
20°	17181	17870	19310
25°	16175	17187	19212
30°	15048	16471	18649
35°	13858	15461	18288
40°	12394	14370	16330
45°	10865	12924	13848
50°	9169	11167	11720
55°	7606	9346	9995
60°	6995	7946	8244
65°	6552	6987	7041
70°	6102	6622	6571
75°	5693	6180	6402
80°	5315	5746	6140
85°	4474	4869	6774

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13848 cd/sqm



TEST NUMBER: P894625
 CATALOG NUMBER: 8TMB-14HL-LVRF-UNV-L930

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.2	4.7
10°-20°	1423.1	13.0
20°-30°	2049.4	18.7
30°-40°	2262.6	20.6
40°-50°	1941.4	17.7
50°-60°	1322.6	12.1
60°-70°	832.0	7.6
70°-80°	473.7	4.3
80°-90°	144.0	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°	3982.7	36.3
0°-40°	6245.2	57.0
0°-60°	9509.3	86.8
0°-90°	10959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10959.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5405	5405	5405	5405	5405	
5°	5420	5398	5314	5426	5390	512
15°	4890	4941	4998	5224	5214	1377
25°	4132	4214	4390	4744	4907	1897
35°	3199	3324	3569	3959	4222	1990
45°	2165	2309	2576	2731	2760	1668
55°	1230	1306	1511	1584	1616	1130
65°	780	793	832	872	839	775
75°	415	418	451	470	467	443
85°	110	113	120	142	166	126
90°	0	0	0	0	0	



TEST NUMBER: P894625
 CATALOG NUMBER: 8TMB-14HL-LVRF-UNV-L930

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5404.9	5404.9	5404.9	5404.9	5404.9
2.5°	5493.8	5437.3	5356.5	5434.0	5374.2
5°	5419.5	5398.5	5314.5	5426.0	5390.4
7.5°	5343.5	5298.3	5283.8	5403.3	5356.5
10°	5232.1	5206.2	5215.9	5369.4	5316.1
12.5°	5055.9	5073.7	5096.3	5291.8	5308.0
15°	4889.5	4941.2	4997.8	5224.0	5214.3
17.5°	4726.3	4797.4	4850.7	5141.6	5149.6
20°	4550.2	4590.6	4732.8	5013.9	5114.1
22.5°	4332.0	4411.2	4534.0	4884.6	4929.9
25°	4131.7	4214.1	4390.2	4744.1	4907.3
27.5°	3921.6	3997.6	4215.7	4577.6	4716.6
30°	3672.8	3774.6	4020.2	4388.6	4551.8
32.5°	3423.9	3572.6	3808.5	4186.6	4375.7
35°	3199.3	3323.8	3569.4	3958.8	4222.2
37.5°	2950.5	3081.4	3330.2	3709.9	3878.0
40°	2675.8	2816.4	3102.4	3409.4	3525.7
42.5°	2439.9	2561.1	2848.7	3065.2	3157.3
45°	2165.2	2309.0	2575.6	2730.7	2759.8
47.5°	1900.2	2065.0	2304.2	2376.9	2433.4
50°	1661.1	1790.3	2023.0	2068.3	2123.2
52.5°	1417.1	1554.4	1758.0	1803.3	1884.1
55°	1229.6	1305.6	1510.8	1583.5	1615.8
57.5°	1092.3	1140.8	1286.2	1378.3	1388.0
60°	985.7	1009.9	1119.8	1189.2	1161.8
62.5°	887.1	906.5	961.4	1014.7	979.2
65°	780.4	793.4	832.2	872.5	838.6
67.5°	680.3	694.8	730.4	759.4	730.4
70°	588.2	599.5	638.3	651.2	633.4
72.5°	502.5	507.4	539.7	562.3	551.0
75°	415.3	418.5	450.8	470.2	467.0
77.5°	336.1	340.9	368.4	386.2	376.5
80°	260.1	263.4	281.2	307.0	300.5
82.5°	182.6	189.1	200.4	223.0	240.8
85°	109.9	113.1	119.6	142.2	166.4
87.5°	42.0	45.2	48.5	59.8	79.2
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P894625
 CATALOG NUMBER: 8TMB-14HL-LVRF-UNV-L930

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	17.72	19.20	18.08	19.51	19.82	19.08	20.56	19.44	20.87	21.18
	3H	19.30	20.62	19.67	20.95	21.31	20.36	21.69	20.74	22.02	22.38
	4H	19.90	21.14	20.30	21.49	21.87	20.92	22.16	21.32	22.51	22.89
	6H	20.37	21.52	20.79	21.89	22.28	21.37	22.52	21.78	22.88	23.27
	8H	20.53	21.62	20.96	22.01	22.41	21.56	22.65	21.98	23.04	23.44
	12H	20.63	21.67	21.06	22.05	22.48	21.71	22.75	22.14	23.14	23.57
4H	2H	18.33	19.57	18.73	19.92	20.30	19.44	20.69	19.85	21.04	21.41
	3H	20.14	21.16	20.55	21.56	21.97	21.00	22.03	21.41	22.43	22.83
	4H	20.86	21.78	21.29	22.20	22.64	21.70	22.63	22.14	23.05	23.49
	6H	21.46	22.26	21.91	22.70	23.16	22.31	23.12	22.77	23.56	24.02
	8H	21.66	22.41	22.12	22.85	23.32	22.56	23.31	23.02	23.76	24.23
	12H	21.80	22.47	22.28	22.95	23.42	22.77	23.45	23.26	23.93	24.40
8H	4H	21.18	21.94	21.65	22.38	22.85	21.94	22.69	22.40	23.13	23.60
	6H	21.91	22.53	22.41	23.02	23.50	22.68	23.30	23.18	23.80	24.27
	8H	22.18	22.74	22.70	23.26	23.74	23.01	23.57	23.53	24.08	24.57
	12H	22.40	22.89	22.91	23.39	23.95	23.32	23.82	23.83	24.31	24.87
12H	4H	21.22	21.89	21.71	22.37	22.85	21.95	22.62	22.43	23.10	23.57
	6H	21.98	22.54	22.49	23.05	23.54	22.72	23.28	23.23	23.79	24.28
	8H	22.31	22.81	22.82	23.30	23.87	23.11	23.60	23.62	24.10	24.66