

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: P894621

Luminaire Tested: 8TMB-14HL-LVRF-UNV-L830

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894621
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-L830
Description: 14000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 3000K (C)
Light Source: -
Ballast/Driver: -

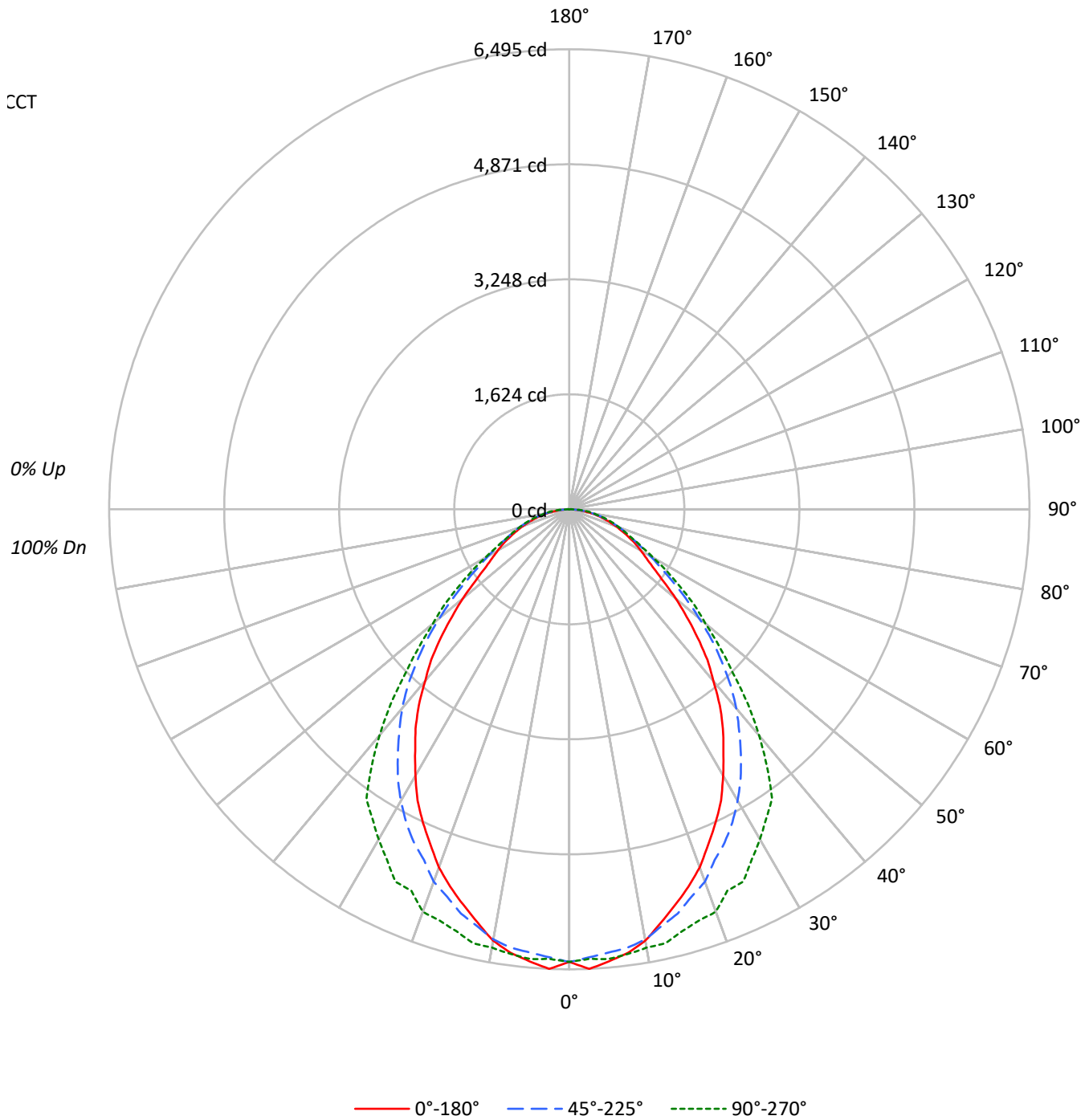
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12956.0 lumens
Efficiency: N/A
Efficacy: 125.1 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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CATALOG NUMBER: 8TMB-14HL-LVRF-UNV-L830

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22672	22672	22672
5°	22820	22378	22698
10°	22286	22217	22643
15°	21234	21704	22644
20°	20311	21127	22829
25°	19123	20319	22712
30°	17789	19472	22047
35°	16383	18278	21621
40°	14652	16988	19306
45°	12845	15279	16372
50°	10840	13202	13856
55°	8993	11049	11817
60°	8269	9394	9747
65°	7747	8260	8323
70°	7213	7828	7768
75°	6730	7307	7569
80°	6285	6792	7260
85°	5288	5756	8012

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 16372 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.1	4.7
10°-20°	1682.4	13.0
20°-30°	2422.9	18.7
30°-40°	2674.9	20.6
40°-50°	2295.2	17.7
50°-60°	1563.6	12.1
60°-70°	983.6	7.6
70°-80°	560.0	4.3
80°-90°	170.2	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°	4708.4	36.3
0°-40°	7383.3	57.0
0°-60°	11242.1	86.8
0°-90°	12956.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12956.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6390	6390	6390	6390	6390	
5°	6407	6382	6283	6415	6373	605
15°	5780	5842	5908	6176	6164	1627
25°	4885	4982	5190	5609	5802	2243
35°	3782	3929	4220	4680	4992	2353
45°	2560	2730	3045	3228	3263	1972
55°	1454	1544	1786	1872	1910	1336
65°	923	938	984	1032	991	917
75°	491	495	533	556	552	523
85°	130	134	141	168	197	149
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6389.9	6389.9	6389.9	6389.9	6389.9
2.5°	6494.9	6428.1	6332.6	6424.2	6353.6
5°	6407.1	6382.2	6282.9	6414.7	6372.7
7.5°	6317.3	6263.8	6246.6	6387.9	6332.6
10°	6185.5	6154.9	6166.4	6347.8	6284.8
12.5°	5977.2	5998.3	6025.0	6256.1	6275.2
15°	5780.5	5841.6	5908.5	6175.9	6164.4
17.5°	5587.5	5671.6	5734.6	6078.5	6088.0
20°	5379.3	5427.1	5595.2	5927.6	6046.0
22.5°	5121.4	5215.0	5360.2	5774.8	5828.2
25°	4884.6	4982.0	5190.2	5608.6	5801.5
27.5°	4636.2	4726.0	4983.9	5411.8	5576.1
30°	4342.0	4462.4	4752.8	5188.3	5381.2
32.5°	4047.9	4223.6	4502.5	4949.5	5173.0
35°	3782.3	3929.4	4219.8	4680.2	4991.5
37.5°	3488.2	3642.9	3937.1	4386.0	4584.7
40°	3163.4	3329.6	3667.7	4030.7	4168.2
42.5°	2884.5	3027.8	3367.8	3623.8	3732.7
45°	2559.8	2729.8	3045.0	3228.4	3262.7
47.5°	2246.5	2441.3	2724.0	2810.0	2876.9
50°	1963.8	2116.6	2391.7	2445.1	2510.1
52.5°	1675.3	1837.7	2078.4	2131.9	2227.4
55°	1453.7	1543.5	1786.1	1872.1	1910.3
57.5°	1291.3	1348.7	1520.6	1629.5	1640.9
60°	1165.3	1193.9	1323.8	1406.0	1373.5
62.5°	1048.7	1071.7	1136.6	1199.7	1157.6
65°	922.7	937.9	983.8	1031.5	991.4
67.5°	804.2	821.4	863.4	897.8	863.4
70°	695.3	708.7	754.6	769.8	748.8
72.5°	594.1	599.8	638.0	664.8	651.4
75°	490.9	494.8	533.0	555.9	552.1
77.5°	397.3	403.1	435.5	456.6	445.1
80°	307.6	311.4	332.4	363.0	355.3
82.5°	215.9	223.5	236.9	263.6	284.6
85°	129.9	133.7	141.4	168.1	196.8
87.5°	49.7	53.5	57.3	70.7	93.6
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	18.30	19.78	18.66	20.09	20.41	19.66	21.14	20.02	21.45	21.77
	3H	19.88	21.20	20.26	21.53	21.89	20.94	22.27	21.32	22.60	22.96
	4H	20.48	21.72	20.88	22.07	22.45	21.50	22.74	21.90	23.09	23.47
	6H	20.95	22.10	21.37	22.47	22.86	21.95	23.10	22.36	23.46	23.86
	8H	21.11	22.20	21.54	22.59	22.99	22.14	23.23	22.56	23.62	24.02
	12H	21.21	22.25	21.64	22.63	23.06	22.29	23.34	22.72	23.72	24.15
4H	2H	18.91	20.15	19.31	20.50	20.88	20.03	21.27	20.43	21.62	22.00
	3H	20.72	21.75	21.13	22.15	22.55	21.58	22.61	21.99	23.01	23.41
	4H	21.44	22.37	21.87	22.78	23.22	22.29	23.21	22.72	23.63	24.07
	6H	22.04	22.84	22.50	23.29	23.75	22.90	23.70	23.35	24.14	24.60
	8H	22.24	22.99	22.70	23.44	23.90	23.14	23.89	23.61	24.34	24.81
	12H	22.38	23.05	22.86	23.53	24.00	23.36	24.03	23.84	24.51	24.98
8H	4H	21.77	22.52	22.23	22.96	23.43	22.52	23.27	22.98	23.72	24.18
	6H	22.49	23.11	22.99	23.60	24.08	23.26	23.89	23.76	24.38	24.86
	8H	22.77	23.33	23.28	23.84	24.33	23.60	24.15	24.11	24.67	25.15
	12H	22.98	23.47	23.49	23.97	24.53	23.90	24.40	24.41	24.89	25.46
12H	4H	21.80	22.48	22.29	22.96	23.43	22.53	23.21	23.02	23.68	24.16
	6H	22.56	23.12	23.07	23.63	24.12	23.30	23.86	23.82	24.37	24.86
	8H	22.89	23.39	23.40	23.88	24.45	23.69	24.19	24.20	24.68	25.24