

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: P894649

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2403-334-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-14HL-RNDU-UNV-L930
Description: 14000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 90CRI, CCT
Light Source: -
Ballast/Driver: -

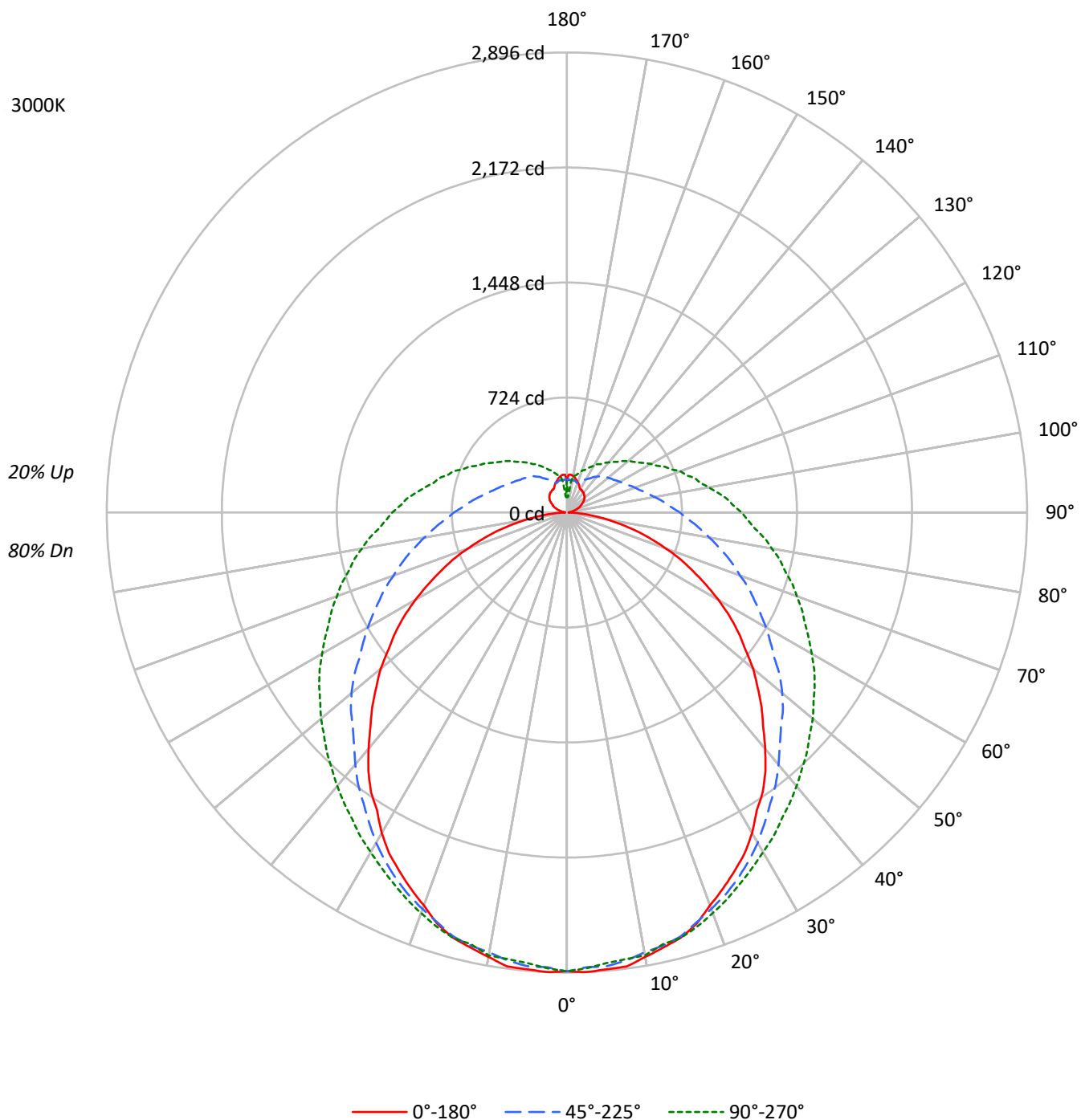
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12145.0 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 7.98' x H: 0.21')
CIE Type: Semi-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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	114	114	114	114	109	109	109	109	100	100	100		91	91	91		83
1	102	96	91	86	97	92	87	83	84	80	77		76	73	71		69
2	92	82	75	68	87	79	72	66	72	66	61		66	61	57		60
3	83	72	63	56	79	69	61	54	63	56	51		57	52	47		52
4	76	63	54	47	72	60	52	45	55	48	43		51	45	40		46
5	69	56	47	40	66	54	45	39	49	42	37		45	39	34		41
6	64	50	41	35	61	48	40	34	44	37	32		41	35	30		38
7	59	46	37	30	56	44	35	30	40	33	28		37	31	26		34
8	55	41	33	27	52	40	32	26	37	30	25		34	28	24		31
9	51	38	30	24	49	37	29	23	34	27	22		31	25	21		29
10	48	35	27	22	46	34	26	21	31	25	20		29	23	19		27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10251	10251	10251
5°	10255	9859	9676
10°	10187	9453	9300
15°	10108	9154	8881
20°	9845	8739	8449
25°	9643	8372	8041
30°	9404	7969	7684
35°	9141	7532	7375
40°	8796	7157	7137
45°	8470	6799	6924
50°	8191	6582	6744
55°	7863	6239	6605
60°	7470	6026	6477
65°	6976	5838	6380
70°	6428	5690	6376
75°	5712	5646	6395
80°	4659	5639	6519
85°	3342	5797	6666

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8470 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.5	2.3
10°-20°	781.5	6.4
20°-30°	1173.5	9.7
30°-40°	1409.2	11.6
40°-50°	1490.5	12.3
50°-60°	1436.4	11.8
60°-70°	1274.4	10.5
70°-80°	1045.1	8.6
80°-90°	808.9	6.7
90°-100°	631.1	5.2
100°-110°	502.4	4.1
110°-120°	401.5	3.3
120°-130°	316.7	2.6
130°-140°	241.7	2.0
140°-150°	169.9	1.4
150°-160°	108.6	0.9
160°-170°	60.9	0.5
170°-180°	19.3	0.2
0°-30°	2228.5	18.3
0°-40°	3637.6	30.0
0°-60°	6564.6	54.1
0°-90°	9693.0	79.8
90°-120°	1535.0	12.6
90°-150°	2263.2	18.6
90°-180°	2452.0	20.2
0°-180°	12145.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2889	2889	2889	2889	2889	
5°	2886	2894	2866	2887	2847	275
15°	2771	2773	2763	2781	2773	779
25°	2493	2534	2543	2587	2579	1148
35°	2149	2181	2233	2325	2356	1340
45°	1732	1784	1905	2086	2136	1336
55°	1318	1385	1593	1810	1903	1176
65°	877	999	1301	1570	1653	872
75°	457	658	1036	1315	1420	484
85°	107	401	803	1092	1189	120
90°	11	318	711	989	1099	11
95°	14	263	628	903	1010	15
105°	48	213	502	738	834	51
115°	94	208	417	603	680	91
125°	131	212	359	494	548	115
135°	154	205	322	418	451	119
145°	166	189	265	351	372	104
155°	184	194	218	275	307	85
165°	218	213	205	200	249	61
175°	239	231	205	168	107	22
180°	196	196	196	196	196	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2889.0	2889.0	2889.0	2889.0	2889.0
2.5°	2895.5	2905.2	2864.8	2889.0	2871.2
5°	2885.8	2893.9	2866.4	2887.4	2847.0
7.5°	2882.5	2879.3	2845.4	2872.9	2835.7
10°	2840.5	2851.8	2811.5	2848.6	2830.8
12.5°	2805.0	2827.6	2792.1	2821.1	2784.0
15°	2771.1	2772.7	2763.0	2780.8	2772.7
17.5°	2714.5	2729.1	2706.4	2746.8	2732.3
20°	2632.1	2677.3	2656.3	2693.5	2683.8
22.5°	2564.2	2586.9	2604.6	2646.6	2633.7
25°	2493.1	2533.5	2543.2	2586.9	2578.8
27.5°	2420.4	2438.2	2475.4	2522.2	2523.8
30°	2330.0	2349.3	2401.0	2454.4	2468.9
32.5°	2223.3	2284.7	2315.4	2396.2	2418.8
35°	2149.0	2181.3	2233.0	2325.1	2355.8
37.5°	2052.0	2089.2	2158.7	2266.9	2304.1
40°	1940.6	1995.5	2071.4	2205.5	2249.2
42.5°	1829.1	1893.7	1982.6	2139.3	2189.4
45°	1732.1	1783.8	1905.0	2086.0	2136.1
47.5°	1627.1	1690.1	1843.6	2016.5	2073.0
50°	1530.1	1594.8	1769.3	1951.9	2019.7
52.5°	1413.8	1488.1	1688.5	1877.5	1956.7
55°	1318.5	1384.7	1593.2	1809.7	1903.4
57.5°	1213.4	1287.8	1518.8	1759.6	1845.2
60°	1100.3	1194.1	1446.1	1696.6	1779.0
62.5°	988.9	1100.3	1371.8	1635.2	1716.0
65°	877.4	998.6	1300.7	1570.5	1652.9
67.5°	777.2	908.1	1236.1	1499.4	1601.2
70°	664.1	820.8	1160.1	1433.2	1539.8
72.5°	557.4	741.6	1098.7	1379.9	1486.5
75°	457.3	657.6	1035.7	1315.2	1420.3
77.5°	357.1	578.4	969.5	1257.1	1371.8
80°	261.8	513.8	911.3	1200.5	1310.4
82.5°	181.0	457.3	854.7	1153.7	1257.1
85°	106.6	400.7	803.0	1092.3	1189.2
87.5°	48.5	355.5	749.7	1045.4	1140.7
90°	11.3	318.3	710.9	988.9	1098.7
92.5°	11.3	289.2	664.1	946.8	1047.0
95°	14.5	263.4	628.5	903.2	1009.9
97.5°	19.4	244.0	596.2	862.8	956.5
100°	27.5	231.1	560.7	816.0	908.1
102.5°	37.2	221.4	528.4	774.0	859.6
105°	48.5	213.3	502.5	738.4	833.7
107.5°	59.8	210.1	476.7	704.5	785.3
110°	71.1	208.4	457.3	668.9	759.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	82.4	206.8	436.3	636.6	709.3
115°	93.7	208.4	416.9	602.7	680.2
117.5°	100.2	208.4	399.1	573.6	638.2
120°	109.9	210.1	386.2	542.9	610.8
122.5°	119.6	210.1	373.2	520.3	580.1
125°	130.9	211.7	358.7	494.4	547.7
127.5°	137.3	211.7	350.6	476.7	525.1
130°	143.8	210.1	339.3	454.0	504.1
132.5°	150.3	206.8	332.9	433.0	479.9
135°	153.5	205.2	321.5	418.5	450.8
137.5°	158.3	200.4	310.2	397.5	433.0
140°	163.2	198.7	294.1	381.3	412.0
142.5°	163.2	193.9	282.8	366.8	394.3
145°	166.4	189.0	265.0	350.6	371.6
147.5°	169.7	187.4	252.1	334.5	360.3
150°	169.7	185.8	240.8	316.7	340.9
152.5°	172.9	187.4	229.4	300.5	323.2
155°	184.2	193.9	218.1	274.7	307.0
157.5°	193.9	200.4	206.8	255.3	289.2
160°	202.0	205.2	197.1	235.9	281.1
162.5°	208.4	210.1	198.7	218.1	263.4
165°	218.1	213.3	205.2	200.4	248.8
167.5°	226.2	216.5	208.4	195.5	237.5
170°	232.7	223.0	205.2	184.2	232.7
172.5°	237.5	224.6	206.8	172.9	195.5
175°	239.1	231.1	205.2	168.0	106.6
177.5°	237.5	232.7	211.7	166.4	95.3
180°	195.5	195.5	195.5	195.5	195.5

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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	15.15	16.47	15.79	17.13	17.90	18.64	19.95	19.28	20.62	21.38
	3H	16.60	17.80	17.26	18.48	19.28	21.51	22.71	22.17	23.39	24.19
	4H	17.07	18.22	17.75	18.90	19.71	22.99	24.14	23.66	24.82	25.63
	6H	17.35	18.42	18.04	19.11	19.94	24.61	25.67	25.29	26.36	27.19
	8H	17.41	18.43	18.11	19.15	19.98	25.47	26.49	26.16	27.20	28.03
	12H	17.43	18.41	18.13	19.12	19.98	26.41	27.39	27.11	28.10	28.96
4H	2H	16.31	17.45	16.98	18.13	18.94	18.98	20.12	19.65	20.80	21.61
	3H	18.01	18.99	18.69	19.71	20.54	22.08	23.06	22.76	23.78	24.61
	4H	18.61	19.51	19.31	20.23	21.09	23.74	24.65	24.45	25.37	26.23
	6H	19.01	19.81	19.73	20.56	21.43	25.55	26.35	26.27	27.10	27.96
	8H	19.13	19.88	19.85	20.62	21.50	26.52	27.28	27.25	28.02	28.90
	12H	19.18	19.87	19.93	20.64	21.52	27.60	28.28	28.34	29.05	29.94
8H	4H	19.66	20.41	20.38	21.15	22.03	23.92	24.67	24.64	25.42	26.30
	6H	20.30	20.94	21.05	21.73	22.61	25.90	26.55	26.66	27.33	28.21
	8H	20.53	21.11	21.29	21.89	22.79	27.02	27.60	27.79	28.39	29.28
	12H	20.68	21.19	21.44	21.97	22.92	28.28	28.80	29.05	29.58	30.53
12H	4H	20.00	20.68	20.74	21.45	22.34	23.91	24.60	24.66	25.37	26.26
	6H	20.80	21.38	21.57	22.17	23.07	25.94	26.52	26.70	27.30	28.20
	8H	21.15	21.67	21.92	22.45	23.40	27.12	27.64	27.88	28.41	29.37