

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: P978891

Luminaire Tested: UHBS2-2436-M-L83065-HIGH-3000K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2405-087-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/27/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-2436-M-L83065-HIGH-3000K
Description: UHBS2 LED High Bay at 3000K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

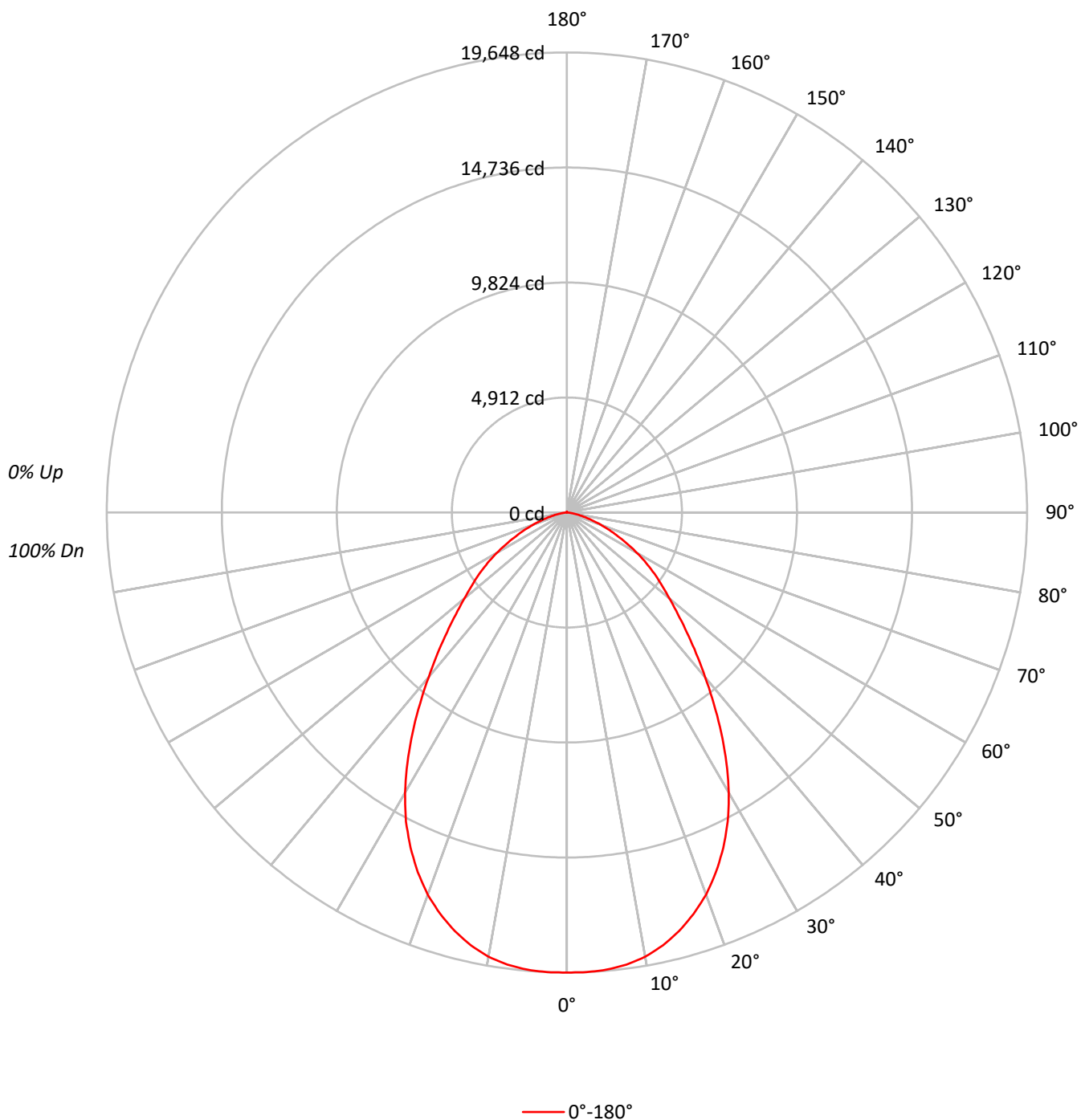
Lumens per Lamp: N/A
Luminaire Lumens: 34701.9 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 239.4
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.999
Total Harmonic Distortion (THDi): 5.15
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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	101	108	105	102	99	101	98	96		97	95	93		93
2	103	96	90	86	100	94	89	85	91	86	83		88	84	81		85
3	95	86	79	74	93	85	78	73	82	77	72		79	75	71		77
4	88	78	70	65	86	77	70	64	74	68	63		72	67	63		70
5	82	71	63	57	80	70	62	57	68	61	56		66	60	56		64
6	76	65	57	51	75	64	56	51	62	56	51		61	55	50		59
7	71	59	52	46	70	59	51	46	57	51	46		56	50	45		55
8	67	55	47	42	66	54	47	42	53	46	42		52	46	41		51
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	195037
5°	193461
10°	190577
15°	184816
20°	176524
25°	164693
30°	149102
35°	129410
40°	109023
45°	91690
50°	78049
55°	68291
60°	57807
65°	45853
70°	34818
75°	23260
80°	12966
85°	5246

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 91690 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1860.3	5.4
10°-20°	5198.2	15.0
20°-30°	7230.8	20.8
30°-40°	7162.7	20.6
40°-50°	5630.9	16.2
50°-60°	4075.9	11.7
60°-70°	2420.8	7.0
70°-80°	941.2	2.7
80°-90°	148.2	0.4
90°-100°	4.4	0.0
100°-110°	2.9	0.0
110°-120°	2.7	0.0
120°-130°	2.7	0.0
130°-140°	4.2	0.0
140°-150°	4.9	0.0
150°-160°	5.3	0.0
160°-170°	4.3	0.0
170°-180°	1.7	0.0
0°-30°	14289.3	41.2
0°-40°	21452.0	61.8
0°-60°	31158.8	89.8
0°-90°	34669.0	99.9
90°-120°	10.0	0.0
90°-150°	21.7	0.1
90°-180°	33.0	0.1
0°-180°	34701.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	19648	
5°	19599	###
15°	18506	5198
25°	15796	7231
35°	11489	7163
45°	7239	5631
55°	4557	4076
65°	2406	2421
75°	852	941
85°	103	140
90°	14	10
95°	3	2
105°	3	3
115°	3	3
125°	3	3
135°	5	4
145°	8	5
155°	11	5
165°	16	4
175°	19	2
180°	19	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	19647.7
2.5°	19647.7
5°	19598.9
7.5°	19476.8
10°	19268.0
12.5°	18931.7
15°	18505.8
17.5°	17982.4
20°	17369.4
22.5°	16631.7
25°	15796.3
27.5°	14876.8
30°	13821.8
32.5°	12679.9
35°	11489.2
37.5°	10303.9
40°	9178.3
42.5°	8169.4
45°	7239.1
47.5°	6422.7
50°	5706.6
52.5°	5109.9
55°	4556.6
57.5°	4008.7
60°	3458.2
62.5°	2913.0
65°	2405.8
67.5°	1977.2
70°	1556.8
72.5°	1179.8
75°	851.7
77.5°	583.1
80°	366.2
82.5°	208.8
85°	103.1
87.5°	43.4
90°	13.6
92.5°	2.7
95°	2.7
97.5°	2.7
100°	2.7
102.5°	2.7
105°	2.7
107.5°	2.7
110°	2.7



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	2.7
115°	2.7
117.5°	2.7
120°	2.7
122.5°	2.7
125°	2.7
127.5°	2.7
130°	5.4
132.5°	5.4
135°	5.4
137.5°	5.4
140°	5.4
142.5°	8.1
145°	8.1
147.5°	8.1
150°	8.1
152.5°	10.8
155°	10.8
157.5°	13.6
160°	13.6
162.5°	13.6
165°	16.3
167.5°	16.3
170°	16.3
172.5°	16.3
175°	19.0
177.5°	19.0
180°	19.0

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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	25.46	26.87	25.83	27.19	27.50	25.46	26.87	25.83	27.19	27.50
	3H	26.39	27.65	26.77	27.98	28.34	26.39	27.65	26.77	27.98	28.34
	4H	26.59	27.76	26.99	28.12	28.50	26.59	27.76	26.99	28.12	28.50
	6H	26.64	27.72	27.06	28.09	28.49	26.64	27.72	27.06	28.09	28.49
	8H	26.63	27.65	27.06	28.04	28.45	26.63	27.65	27.06	28.04	28.45
	12H	26.60	27.58	27.03	27.96	28.40	26.60	27.58	27.03	27.96	28.40
4H	2H	25.78	26.95	26.18	27.30	27.69	25.78	26.95	26.18	27.30	27.69
	3H	26.85	27.81	27.26	28.22	28.62	26.85	27.81	27.26	28.22	28.62
	4H	27.10	27.96	27.54	28.38	28.83	27.10	27.96	27.54	28.38	28.83
	6H	27.20	27.94	27.66	28.39	28.85	27.20	27.94	27.66	28.39	28.85
	8H	27.18	27.88	27.65	28.32	28.80	27.18	27.88	27.65	28.32	28.80
	12H	27.16	27.77	27.64	28.26	28.73	27.16	27.77	27.64	28.26	28.73
8H	4H	27.13	27.83	27.60	28.28	28.75	27.13	27.83	27.60	28.28	28.75
	6H	27.25	27.81	27.75	28.31	28.79	27.25	27.81	27.75	28.31	28.79
	8H	27.24	27.75	27.76	28.26	28.76	27.24	27.75	27.76	28.26	28.76
	12H	27.22	27.67	27.74	28.17	28.74	27.22	27.67	27.74	28.17	28.74
12H	4H	27.10	27.72	27.59	28.20	28.68	27.10	27.72	27.59	28.20	28.68
	6H	27.21	27.72	27.73	28.23	28.72	27.21	27.72	27.73	28.23	28.72
	8H	27.22	27.67	27.74	28.17	28.74	27.22	27.67	27.74	28.17	28.74