

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: P978921

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

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2405-087-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/27/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-2436-W-L83065-HIGH-3000K
Description: UHBS2 LED High Bay at 3000K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

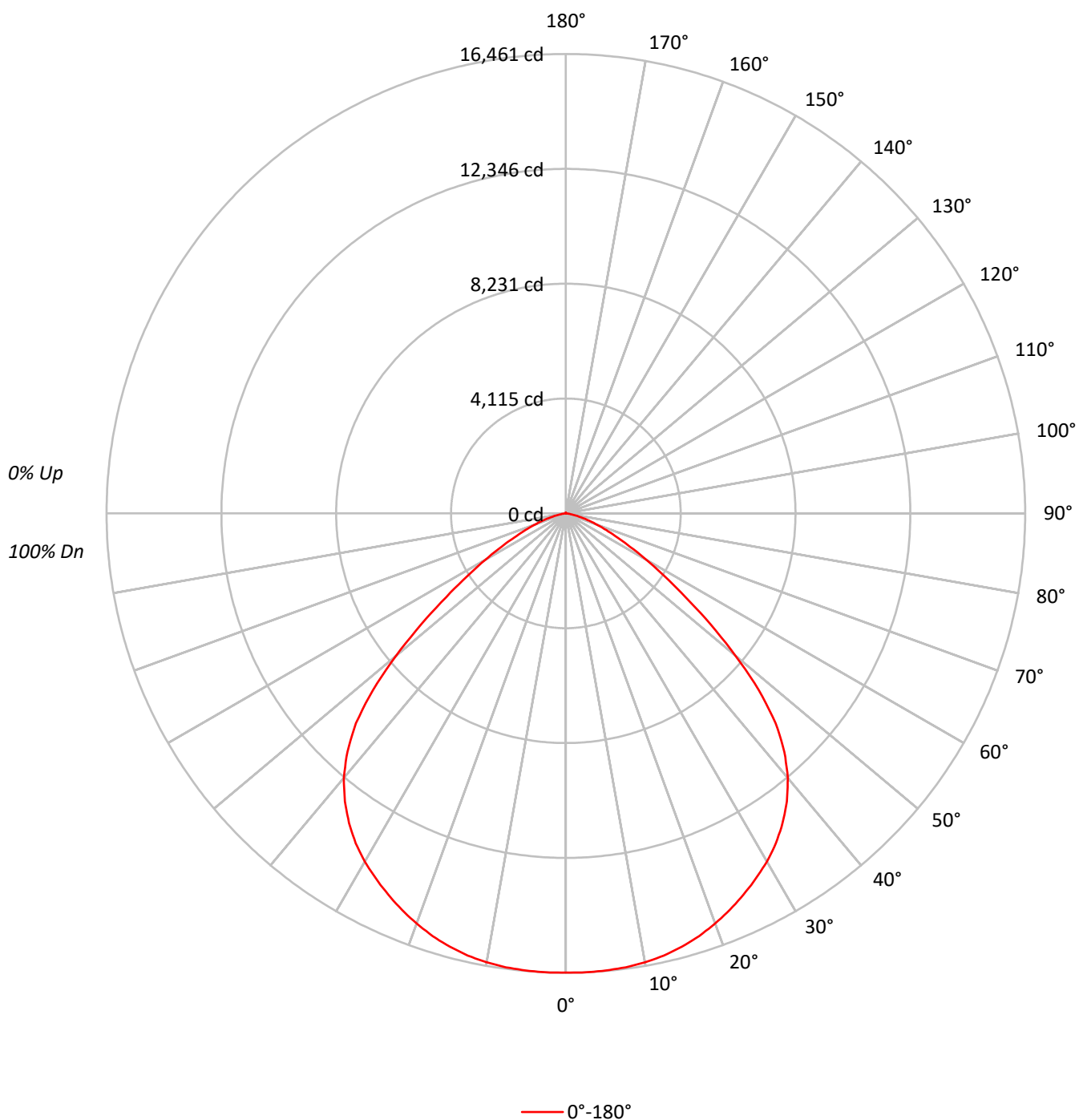
Lumens per Lamp: N/A
Luminaire Lumens: 37196.9 lumens
Efficiency: N/A
Efficacy: 155.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

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		94
2	103	96	90	86	100	94	89	85	91	86	83		88	84	81		85
3	95	86	79	73	93	84	78	73	82	76	72		79	74	70		76
4	88	77	70	64	86	76	69	63	74	67	63		71	66	62		69
5	81	70	62	56	79	69	61	56	67	60	55		65	59	54		63
6	75	63	55	49	74	62	55	49	61	54	49		59	53	48		58
7	70	58	50	44	68	57	49	44	56	49	44		54	48	43		53
8	65	53	45	40	64	52	45	40	51	44	39		50	44	39		49
9	61	49	41	36	60	48	41	36	47	40	36		46	40	35		45
10	57	45	38	33	56	45	37	33	44	37	32		43	37	32		42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	163351
5°	162320
10°	161600
15°	160555
20°	158947
25°	157125
30°	155453
35°	152562
40°	147017
45°	134711
50°	108677
55°	78345
60°	55639
65°	38723
70°	26377
75°	16184
80°	7219
85°	2447

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 134711 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1566.4	4.2
10°-20°	4538.1	12.2
20°-30°	6951.6	18.7
30°-40°	8450.0	22.7
40°-50°	8041.7	21.6
50°-60°	4800.6	12.9
60°-70°	2083.7	5.6
70°-80°	662.6	1.8
80°-90°	74.0	0.2
90°-100°	2.6	0.0
100°-110°	2.0	0.0
110°-120°	2.1	0.0
120°-130°	3.4	0.0
130°-140°	3.9	0.0
140°-150°	4.7	0.0
150°-160°	4.6	0.0
160°-170°	3.6	0.0
170°-180°	1.4	0.0
0°-30°	13056.1	35.1
0°-40°	21506.1	57.8
0°-60°	34348.4	92.3
0°-90°	37168.7	99.9
90°-120°	6.7	0.0
90°-150°	18.7	0.1
90°-180°	28.0	0.1
0°-180°	37196.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16456	
5°	16444	###
15°	16077	4538
25°	15070	6952
35°	13545	8450
45°	10636	8042
55°	5227	4801
65°	2032	2084
75°	593	663
85°	48	70
90°	6	5
95°	2	2
105°	2	2
115°	2	2
125°	4	3
135°	6	4
145°	8	5
155°	10	5
165°	14	4
175°	15	1
180°	17	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	16455.7
2.5°	16461.4
5°	16444.1
7.5°	16407.6
10°	16338.3
12.5°	16230.6
15°	16076.6
17.5°	15882.3
20°	15639.9
22.5°	15372.5
25°	15070.4
27.5°	14751.0
30°	14410.5
32.5°	14014.1
35°	13544.7
37.5°	13009.8
40°	12376.9
42.5°	11591.9
45°	10635.7
47.5°	9387.0
50°	7946.0
52.5°	6526.1
55°	5227.4
57.5°	4190.4
60°	3328.5
62.5°	2601.2
65°	2031.7
67.5°	1564.2
70°	1179.4
72.5°	860.0
75°	592.6
77.5°	375.2
80°	203.9
82.5°	98.1
85°	48.1
87.5°	21.2
90°	5.8
92.5°	1.9
95°	1.9
97.5°	1.9
100°	1.9
102.5°	1.9
105°	1.9
107.5°	1.9
110°	1.9



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.9
115°	1.9
117.5°	1.9
120°	3.8
122.5°	3.8
125°	3.8
127.5°	3.8
130°	3.8
132.5°	3.8
135°	5.8
137.5°	5.8
140°	5.8
142.5°	7.7
145°	7.7
147.5°	7.7
150°	7.7
152.5°	9.6
155°	9.6
157.5°	11.5
160°	11.5
162.5°	11.5
165°	13.5
167.5°	13.5
170°	13.5
172.5°	13.5
175°	15.4
177.5°	15.4
180°	17.3

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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	25.45	26.89	25.81	27.21	27.52	25.45	26.89	25.81	27.21	27.52
	3H	25.96	27.24	26.34	27.57	27.94	25.96	27.24	26.34	27.57	27.94
	4H	26.04	27.23	26.44	27.58	27.97	26.04	27.23	26.44	27.58	27.97
	6H	26.02	27.12	26.44	27.49	27.88	26.02	27.12	26.44	27.49	27.88
	8H	25.99	27.03	26.42	27.42	27.83	25.99	27.03	26.42	27.42	27.83
	12H	25.95	26.95	26.39	27.33	27.77	25.95	26.95	26.39	27.33	27.77
4H	2H	25.62	26.81	26.02	27.16	27.54	25.62	26.81	26.02	27.16	27.54
	3H	26.24	27.21	26.65	27.62	28.02	26.24	27.21	26.65	27.62	28.02
	4H	26.35	27.22	26.78	27.64	28.08	26.35	27.22	26.78	27.64	28.08
	6H	26.35	27.10	26.81	27.55	28.01	26.35	27.10	26.81	27.55	28.01
	8H	26.31	27.01	26.78	27.46	27.93	26.31	27.01	26.78	27.46	27.93
	12H	26.28	26.90	26.76	27.38	27.85	26.28	26.90	26.76	27.38	27.85
8H	4H	26.32	27.01	26.78	27.46	27.93	26.32	27.01	26.78	27.46	27.93
	6H	26.31	26.89	26.81	27.38	27.86	26.31	26.89	26.81	27.38	27.86
	8H	26.27	26.78	26.79	27.30	27.79	26.27	26.78	26.79	27.30	27.79
	12H	26.23	26.69	26.75	27.19	27.76	26.23	26.69	26.75	27.19	27.76
12H	4H	26.28	26.90	26.76	27.38	27.86	26.28	26.90	26.76	27.38	27.86
	6H	26.26	26.78	26.78	27.29	27.78	26.26	26.78	26.78	27.29	27.78
	8H	26.23	26.69	26.75	27.19	27.76	26.23	26.69	26.75	27.19	27.76