

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: P978926

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

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978926
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-LOW-3000K
Description: UHBS2 LED High Bay at 3000K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

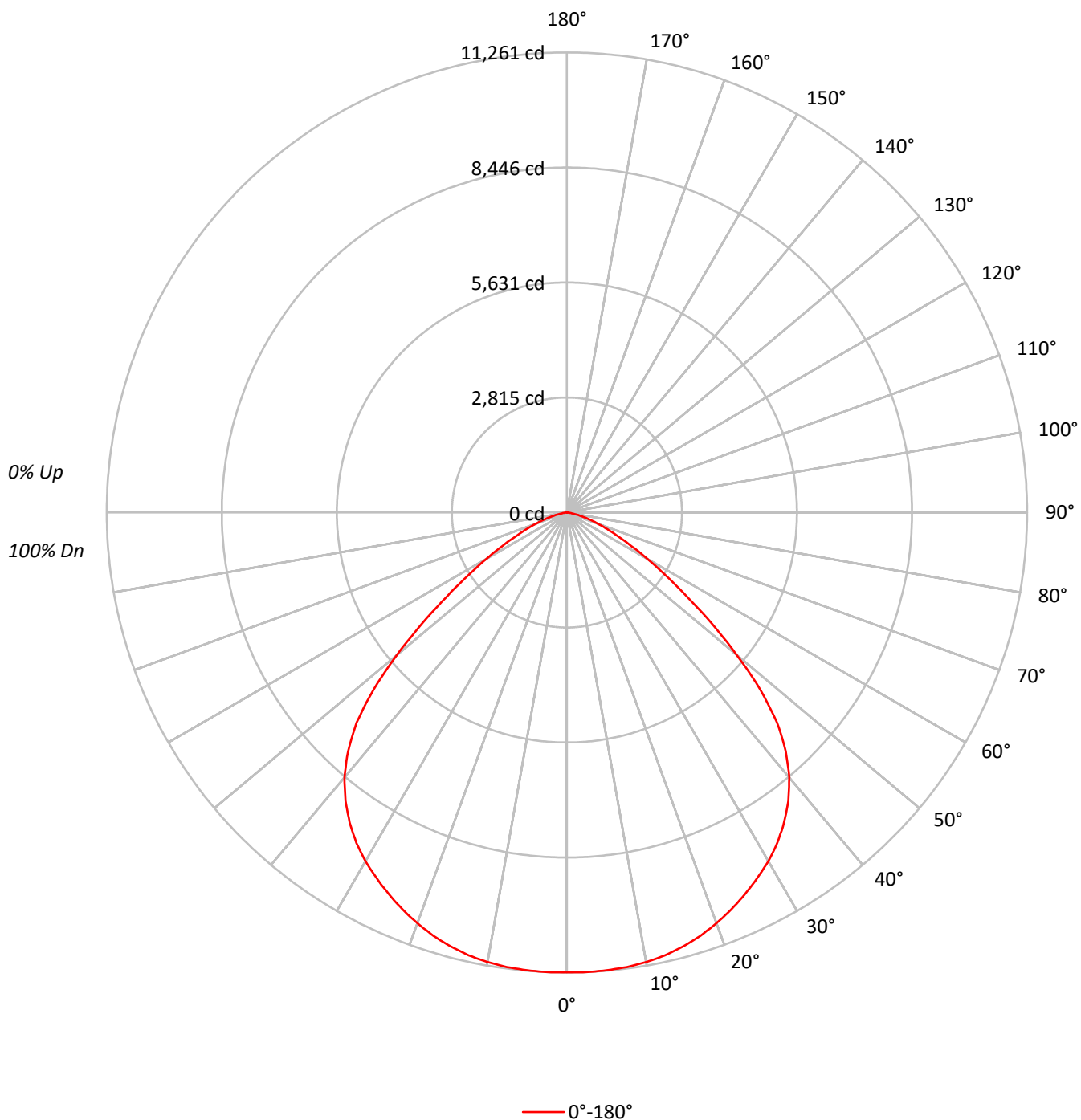
Lumens per Lamp: N/A
Luminaire Lumens: 25445.9 lumens
Efficiency: N/A
Efficacy: 163.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 156
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 5.2
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P978926

CATALOG NUMBER: UHBS2-2436-W-L83065-LOW-3000K

Luminous Intensity Polar Plot



TEST NUMBER: P978926

CATALOG NUMBER: UHBS2-2436-W-L83065-LOW-3000K

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°	111746
5°	111041
10°	110548
15°	109834
20°	108734
25°	107488
30°	106343
35°	104367
40°	100573
45°	92154
50°	74344
55°	53595
60°	38062
65°	26491
70°	18044
75°	11071
80°	4939
85°	1674

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 92154 cd/sqm

TEST NUMBER: P978926

CATALOG NUMBER: UHBS2-2436-W-L83065-LOW-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1071.6	4.2
10°-20°	3104.4	12.2
20°-30°	4755.5	18.7
30°-40°	5780.6	22.7
40°-50°	5501.2	21.6
50°-60°	3284.0	12.9
60°-70°	1425.4	5.6
70°-80°	453.2	1.8
80°-90°	50.6	0.2
90°-100°	1.8	0.0
100°-110°	1.4	0.0
110°-120°	1.4	0.0
120°-130°	2.3	0.0
130°-140°	2.6	0.0
140°-150°	3.2	0.0
150°-160°	3.2	0.0
160°-170°	2.4	0.0
170°-180°	0.9	0.0
0°-30°	8931.5	35.1
0°-40°	14712.1	57.8
0°-60°	23497.3	92.3
0°-90°	25426.6	99.9
90°-120°	4.6	0.0
90°-150°	12.8	0.1
90°-180°	19.0	0.1
0°-180°	25445.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11257	
5°	11249	###
15°	10998	3104
25°	10310	4756
35°	9266	5781
45°	7276	5501
55°	3576	3284
65°	1390	1425
75°	405	453
85°	33	48
90°	4	3
95°	1	1
105°	1	1
115°	1	1
125°	3	2
135°	4	3
145°	5	3
155°	7	3
165°	9	2
175°	10	1
180°	12	

TEST NUMBER: P978926

CATALOG NUMBER: UHBS2-2436-W-L83065-LOW-3000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	11257.1
2.5°	11261.1
5°	11249.2
7.5°	11224.2
10°	11176.8
12.5°	11103.1
15°	10997.8
17.5°	10864.9
20°	10699.1
22.5°	10516.1
25°	10309.5
27.5°	10091.0
30°	9858.0
32.5°	9586.9
35°	9265.8
37.5°	8899.9
40°	8466.9
42.5°	7929.9
45°	7275.7
47.5°	6421.5
50°	5435.7
52.5°	4464.4
55°	3576.0
57.5°	2866.6
60°	2277.0
62.5°	1779.4
65°	1389.9
67.5°	1070.0
70°	806.8
72.5°	588.3
75°	405.4
77.5°	256.7
80°	139.5
82.5°	67.1
85°	32.9
87.5°	14.5
90°	3.9
92.5°	1.3
95°	1.3
97.5°	1.3
100°	1.3
102.5°	1.3
105°	1.3
107.5°	1.3
110°	1.3



TEST NUMBER: P978926

CATALOG NUMBER: UHBS2-2436-W-L83065-LOW-3000K

CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.3
115°	1.3
117.5°	1.3
120°	2.6
122.5°	2.6
125°	2.6
127.5°	2.6
130°	2.6
132.5°	2.6
135°	3.9
137.5°	3.9
140°	3.9
142.5°	5.3
145°	5.3
147.5°	5.3
150°	5.3
152.5°	6.6
155°	6.6
157.5°	7.9
160°	7.9
162.5°	7.9
165°	9.2
167.5°	9.2
170°	9.2
172.5°	9.2
175°	10.5
177.5°	10.5
180°	11.8



TEST NUMBER: P978926

CATALOG NUMBER: UHBS2-2436-W-L83065-LOW-3000K

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	24.13	25.57	24.49	25.89	26.20	24.13	25.57	24.49	25.89	26.20
	3H	24.64	25.92	25.02	26.25	26.62	24.64	25.92	25.02	26.25	26.62
	4H	24.72	25.91	25.12	26.26	26.65	24.72	25.91	25.12	26.26	26.65
	6H	24.70	25.80	25.12	26.17	26.56	24.70	25.80	25.12	26.17	26.56
	8H	24.67	25.71	25.10	26.10	26.51	24.67	25.71	25.10	26.10	26.51
	12H	24.64	25.63	25.07	26.02	26.45	24.64	25.63	25.07	26.02	26.45
4H	2H	24.30	25.49	24.70	25.84	26.23	24.30	25.49	24.70	25.84	26.23
	3H	24.92	25.89	25.33	26.30	26.70	24.92	25.89	25.33	26.30	26.70
	4H	25.03	25.90	25.46	26.32	26.76	25.03	25.90	25.46	26.32	26.76
	6H	25.03	25.78	25.50	26.23	26.69	25.03	25.78	25.50	26.23	26.69
	8H	24.99	25.69	25.46	26.14	26.61	24.99	25.69	25.46	26.14	26.61
	12H	24.96	25.58	25.44	26.06	26.54	24.96	25.58	25.44	26.06	26.54
8H	4H	25.00	25.70	25.46	26.14	26.61	25.00	25.70	25.46	26.14	26.61
	6H	24.99	25.57	25.49	26.06	26.54	24.99	25.57	25.49	26.06	26.54
	8H	24.95	25.47	25.47	25.98	26.47	24.95	25.47	25.47	25.98	26.47
	12H	24.91	25.37	25.43	25.87	26.44	24.91	25.37	25.43	25.87	26.44
12H	4H	24.96	25.58	25.45	26.06	26.54	24.96	25.58	25.45	26.06	26.54
	6H	24.94	25.46	25.46	25.97	26.46	24.94	25.46	25.46	25.97	26.46
	8H	24.91	25.37	25.43	25.87	26.44	24.91	25.37	25.43	25.87	26.44