

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: P978933

Luminaire Tested: UHBS2-2436-W-L83065-MID-4000K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978933
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-MID-4000K
Description: UHBS2 LED High Bay at 4000K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

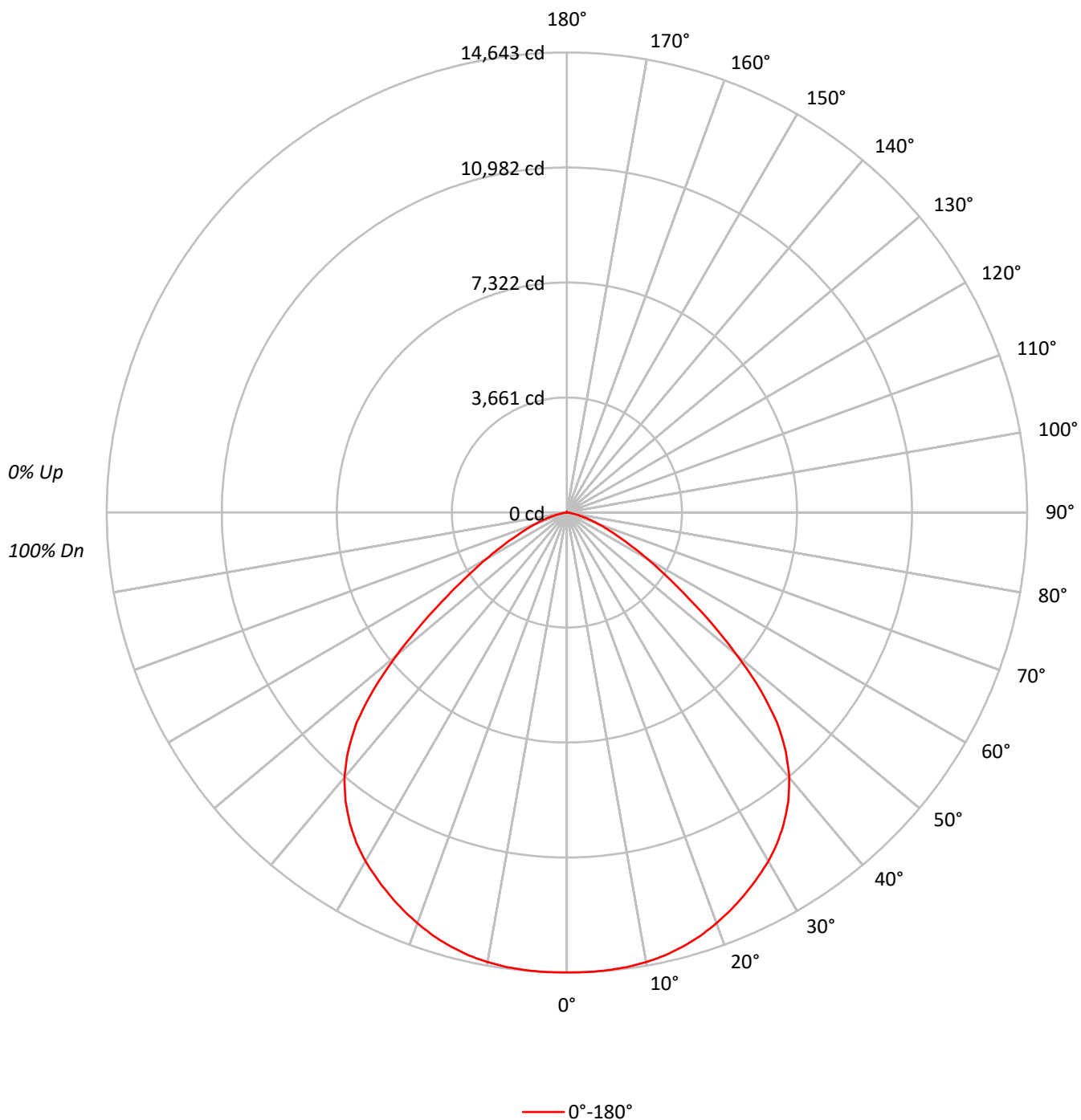
Lumens per Lamp: N/A
Luminaire Lumens: 33087.9 lumens
Efficiency: N/A
Efficacy: 174.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 190
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 5.15
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P978933

CATALOG NUMBER: UHBS2-2436-W-L83065-MID-4000K

Luminous Intensity Polar Plot



TEST NUMBER: P978933

CATALOG NUMBER: UHBS2-2436-W-L83065-MID-4000K

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°	145306
5°	144390
10°	143749
15°	142820
20°	141389
25°	139768
30°	138280
35°	135710
40°	130776
45°	119830
50°	96671
55°	69691
60°	49493
65°	34446
70°	23463
75°	14395
80°	6423
85°	2178

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 119830 cd/sqm

TEST NUMBER: P978933

CATALOG NUMBER: UHBS2-2436-W-L83065-MID-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1393.4	4.2
10°-20°	4036.8	12.2
20°-30°	6183.7	18.7
30°-40°	7516.6	22.7
40°-50°	7153.3	21.6
50°-60°	4270.3	12.9
60°-70°	1853.6	5.6
70°-80°	589.3	1.8
80°-90°	65.8	0.2
90°-100°	2.3	0.0
100°-110°	1.8	0.0
110°-120°	1.9	0.0
120°-130°	3.1	0.0
130°-140°	3.4	0.0
140°-150°	4.1	0.0
150°-160°	4.1	0.0
160°-170°	3.2	0.0
170°-180°	1.2	0.0
0°-30°	11613.8	35.1
0°-40°	19130.4	57.8
0°-60°	30554.1	92.3
0°-90°	33062.8	99.9
90°-120°	6.0	0.0
90°-150°	16.6	0.1
90°-180°	25.0	0.1
0°-180°	33087.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14638	
5°	14628	###
15°	14301	4037
25°	13406	6184
35°	12048	7517
45°	9461	7153
55°	4650	4270
65°	1807	1854
75°	527	589
85°	43	63
90°	5	4
95°	2	1
105°	2	2
115°	2	2
125°	3	3
135°	5	3
145°	7	4
155°	9	4
165°	12	3
175°	14	1
180°	15	

TEST NUMBER: P978933

CATALOG NUMBER: UHBS2-2436-W-L83065-MID-4000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	14637.9
2.5°	14643.0
5°	14627.6
7.5°	14595.1
10°	14533.5
12.5°	14437.6
15°	14300.7
17.5°	14127.9
20°	13912.2
22.5°	13674.3
25°	13405.6
27.5°	13121.5
30°	12818.6
32.5°	12466.1
35°	12048.5
37.5°	11572.7
40°	11009.6
42.5°	10311.4
45°	9460.8
47.5°	8350.1
50°	7068.2
52.5°	5805.2
55°	4650.0
57.5°	3727.5
60°	2960.8
62.5°	2313.9
65°	1807.3
67.5°	1391.4
70°	1049.1
72.5°	765.0
75°	527.1
77.5°	333.7
80°	181.4
82.5°	87.3
85°	42.8
87.5°	18.8
90°	5.1
92.5°	1.7
95°	1.7
97.5°	1.7
100°	1.7
102.5°	1.7
105°	1.7
107.5°	1.7
110°	1.7



TEST NUMBER: P978933

CATALOG NUMBER: UHBS2-2436-W-L83065-MID-4000K

CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.7
115°	1.7
117.5°	1.7
120°	3.4
122.5°	3.4
125°	3.4
127.5°	3.4
130°	3.4
132.5°	3.4
135°	5.1
137.5°	5.1
140°	5.1
142.5°	6.8
145°	6.8
147.5°	6.8
150°	6.8
152.5°	8.6
155°	8.6
157.5°	10.3
160°	10.3
162.5°	10.3
165°	12.0
167.5°	12.0
170°	12.0
172.5°	12.0
175°	13.7
177.5°	13.7
180°	15.4

TEST NUMBER: P978933

CATALOG NUMBER: UHBS2-2436-W-L83065-MID-4000K

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	25.04	26.49	25.41	26.80	27.12	25.04	26.49	25.41	26.80	27.12
	3H	25.55	26.84	25.93	27.17	27.53	25.55	26.84	25.93	27.17	27.53
	4H	25.63	26.83	26.03	27.18	27.56	25.63	26.83	26.03	27.18	27.56
	6H	25.61	26.71	26.03	27.08	27.48	25.61	26.71	26.03	27.08	27.48
	8H	25.58	26.62	26.01	27.02	27.42	25.58	26.62	26.01	27.02	27.42
	12H	25.55	26.54	25.98	26.93	27.36	25.55	26.54	25.98	26.93	27.36
4H	2H	25.21	26.40	25.61	26.75	27.14	25.21	26.40	25.61	26.75	27.14
	3H	25.83	26.81	26.25	27.21	27.61	25.83	26.81	26.25	27.21	27.61
	4H	25.94	26.81	26.38	27.23	27.67	25.94	26.81	26.38	27.23	27.67
	6H	25.95	26.70	26.41	27.14	27.61	25.95	26.70	26.41	27.14	27.61
	8H	25.91	26.61	26.37	27.05	27.52	25.91	26.61	26.37	27.05	27.52
	12H	25.87	26.49	26.36	26.97	27.45	25.87	26.49	26.36	26.97	27.45
8H	4H	25.91	26.61	26.38	27.05	27.53	25.91	26.61	26.38	27.05	27.53
	6H	25.90	26.48	26.41	26.97	27.46	25.90	26.48	26.41	26.97	27.46
	8H	25.86	26.38	26.38	26.89	27.38	25.86	26.38	26.38	26.89	27.38
	12H	25.83	26.29	26.34	26.78	27.35	25.83	26.29	26.34	26.78	27.35
12H	4H	25.87	26.49	26.36	26.98	27.45	25.87	26.49	26.36	26.98	27.45
	6H	25.85	26.37	26.37	26.88	27.38	25.85	26.37	26.37	26.88	27.38
	8H	25.83	26.29	26.34	26.78	27.35	25.83	26.29	26.34	26.78	27.35