

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: P978924

Luminaire Tested: UHBS2-2436-W-L83065-HIGH-5000K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978924
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-5000K
Description: UHBS2 LED High Bay at 5000K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

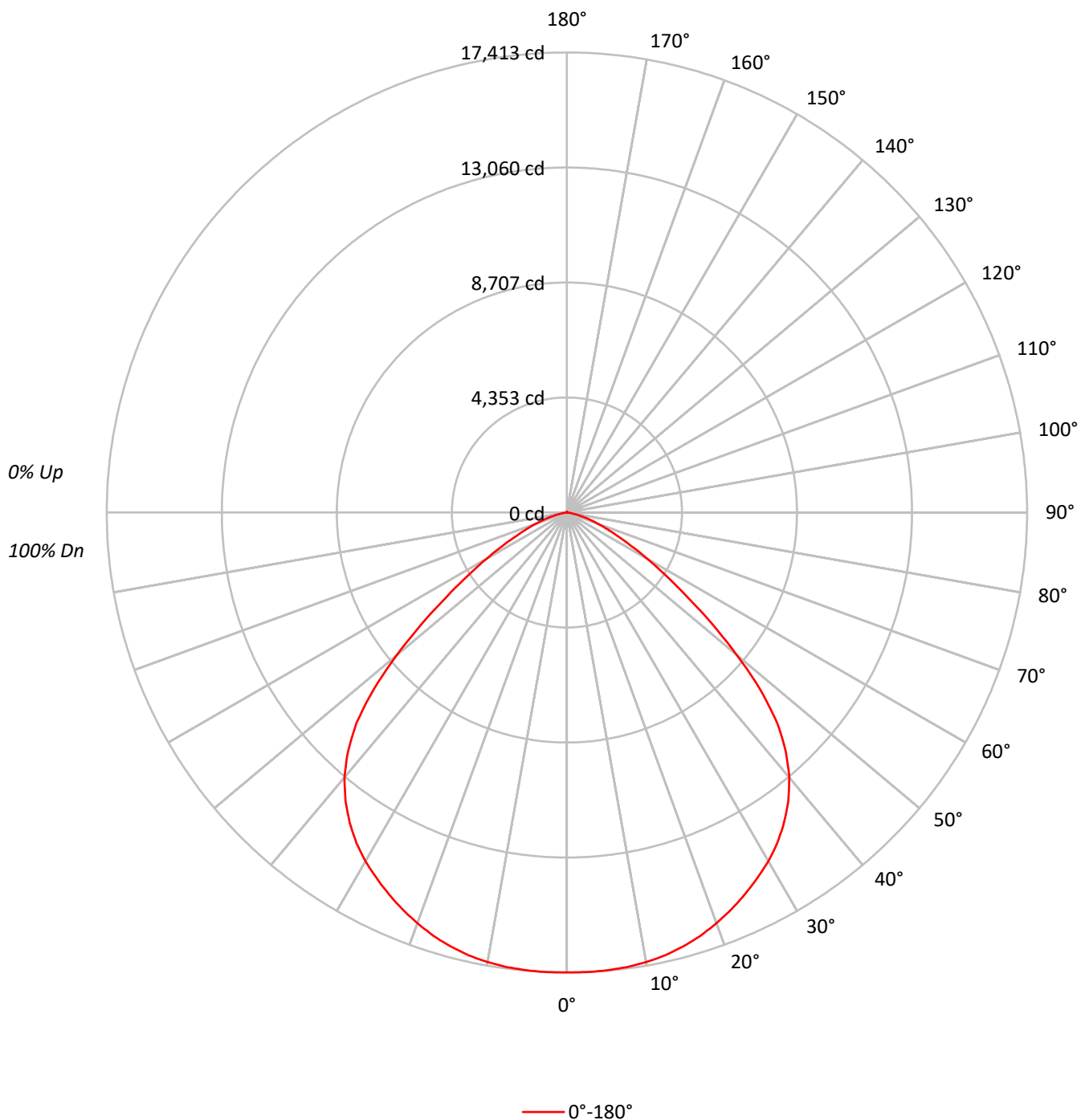
Lumens per Lamp: N/A
Luminaire Lumens: 39346.9 lumens
Efficiency: N/A
Efficacy: 168.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 233.5
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

TEST NUMBER: P978924

CATALOG NUMBER: UHBS2-2436-W-L83065-HIGH-5000K

Luminous Intensity Polar Plot



TEST NUMBER: P978924

CATALOG NUMBER: UHBS2-2436-W-L83065-HIGH-5000K

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°	172792
5°	171703
10°	170941
15°	169836
20°	168135
25°	166207
30°	164438
35°	161381
40°	155514
45°	142497
50°	114958
55°	82874
60°	58854
65°	40961
70°	27903
75°	17118
80°	7637
85°	2590

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 142497 cd/sqm

TEST NUMBER: P978924

CATALOG NUMBER: UHBS2-2436-W-L83065-HIGH-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1657.0	4.2
10°-20°	4800.4	12.2
20°-30°	7353.4	18.7
30°-40°	8938.4	22.7
40°-50°	8506.5	21.6
50°-60°	5078.1	12.9
60°-70°	2204.1	5.6
70°-80°	700.8	1.8
80°-90°	78.3	0.2
90°-100°	2.7	0.0
100°-110°	2.1	0.0
110°-120°	2.2	0.0
120°-130°	3.7	0.0
130°-140°	4.1	0.0
140°-150°	4.9	0.0
150°-160°	4.9	0.0
160°-170°	3.8	0.0
170°-180°	1.4	0.0
0°-30°	13810.7	35.1
0°-40°	22749.2	57.8
0°-60°	36333.7	92.3
0°-90°	39317.0	99.9
90°-120°	7.1	0.0
90°-150°	19.8	0.1
90°-180°	30.0	0.1
0°-180°	39346.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17407	
5°	17395	###
15°	17006	4800
25°	15942	7353
35°	14328	8938
45°	11250	8506
55°	5530	5078
65°	2149	2204
75°	627	701
85°	51	74
90°	6	5
95°	2	2
105°	2	2
115°	2	2
125°	4	4
135°	6	4
145°	8	5
155°	10	5
165°	14	4
175°	16	1
180°	18	

TEST NUMBER: P978924

CATALOG NUMBER: UHBS2-2436-W-L83065-HIGH-5000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	17406.8
2.5°	17412.9
5°	17394.6
7.5°	17355.9
10°	17282.7
12.5°	17168.7
15°	17005.9
17.5°	16800.3
20°	16543.9
22.5°	16261.0
25°	15941.5
27.5°	15603.6
30°	15243.4
32.5°	14824.2
35°	14327.6
37.5°	13761.8
40°	13092.2
42.5°	12261.9
45°	11250.4
47.5°	9929.6
50°	8405.2
52.5°	6903.3
55°	5529.6
57.5°	4432.6
60°	3520.8
62.5°	2751.5
65°	2149.1
67.5°	1654.6
70°	1247.6
72.5°	909.7
75°	626.8
77.5°	396.9
80°	215.7
82.5°	103.8
85°	50.9
87.5°	22.4
90°	6.1
92.5°	2.0
95°	2.0
97.5°	2.0
100°	2.0
102.5°	2.0
105°	2.0
107.5°	2.0
110°	2.0



TEST NUMBER: P978924

CATALOG NUMBER: UHBS2-2436-W-L83065-HIGH-5000K

CANDELA DISTRIBUTION (continued):

	0°
112.5°	2.0
115°	2.0
117.5°	2.0
120°	4.1
122.5°	4.1
125°	4.1
127.5°	4.1
130°	4.1
132.5°	4.1
135°	6.1
137.5°	6.1
140°	6.1
142.5°	8.1
145°	8.1
147.5°	8.1
150°	8.1
152.5°	10.2
155°	10.2
157.5°	12.2
160°	12.2
162.5°	12.2
165°	14.2
167.5°	14.2
170°	14.2
172.5°	14.2
175°	16.3
177.5°	16.3
180°	18.3

TEST NUMBER: P978924

CATALOG NUMBER: UHBS2-2436-W-L83065-HIGH-5000K

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	25.64	27.09	26.01	27.40	27.72	25.64	27.09	26.01	27.40	27.72
	3H	26.16	27.44	26.54	27.77	28.13	26.16	27.44	26.54	27.77	28.13
	4H	26.23	27.43	26.64	27.78	28.16	26.23	27.43	26.64	27.78	28.16
	6H	26.22	27.31	26.63	27.68	28.08	26.22	27.31	26.63	27.68	28.08
	8H	26.18	27.23	26.61	27.62	28.02	26.18	27.23	26.61	27.62	28.02
	12H	26.15	27.15	26.58	27.53	27.96	26.15	27.15	26.58	27.53	27.96
4H	2H	25.81	27.01	26.21	27.36	27.74	25.81	27.01	26.21	27.36	27.74
	3H	26.44	27.41	26.85	27.81	28.22	26.44	27.41	26.85	27.81	28.22
	4H	26.54	27.41	26.98	27.83	28.27	26.54	27.41	26.98	27.83	28.27
	6H	26.55	27.30	27.01	27.74	28.21	26.55	27.30	27.01	27.74	28.21
	8H	26.51	27.21	26.98	27.65	28.13	26.51	27.21	26.98	27.65	28.13
	12H	26.47	27.09	26.96	27.58	28.05	26.47	27.09	26.96	27.58	28.05
8H	4H	26.51	27.21	26.98	27.66	28.13	26.51	27.21	26.98	27.66	28.13
	6H	26.51	27.08	27.01	27.58	28.06	26.51	27.08	27.01	27.58	28.06
	8H	26.46	26.98	26.98	27.49	27.99	26.46	26.98	26.98	27.49	27.99
	12H	26.43	26.89	26.94	27.38	27.95	26.43	26.89	26.94	27.38	27.95
12H	4H	26.47	27.10	26.96	27.58	28.05	26.47	27.10	26.96	27.58	28.05
	6H	26.45	26.97	26.97	27.49	27.98	26.45	26.97	26.97	27.49	27.98
	8H	26.43	26.89	26.94	27.38	27.95	26.43	26.89	26.94	27.38	27.95