

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: P978925

Luminaire Tested: UHBS2-2436-W-L83065-HIGH-6500K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978925
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-6500K
Description: UHBS2 LED High Bay at 6500K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

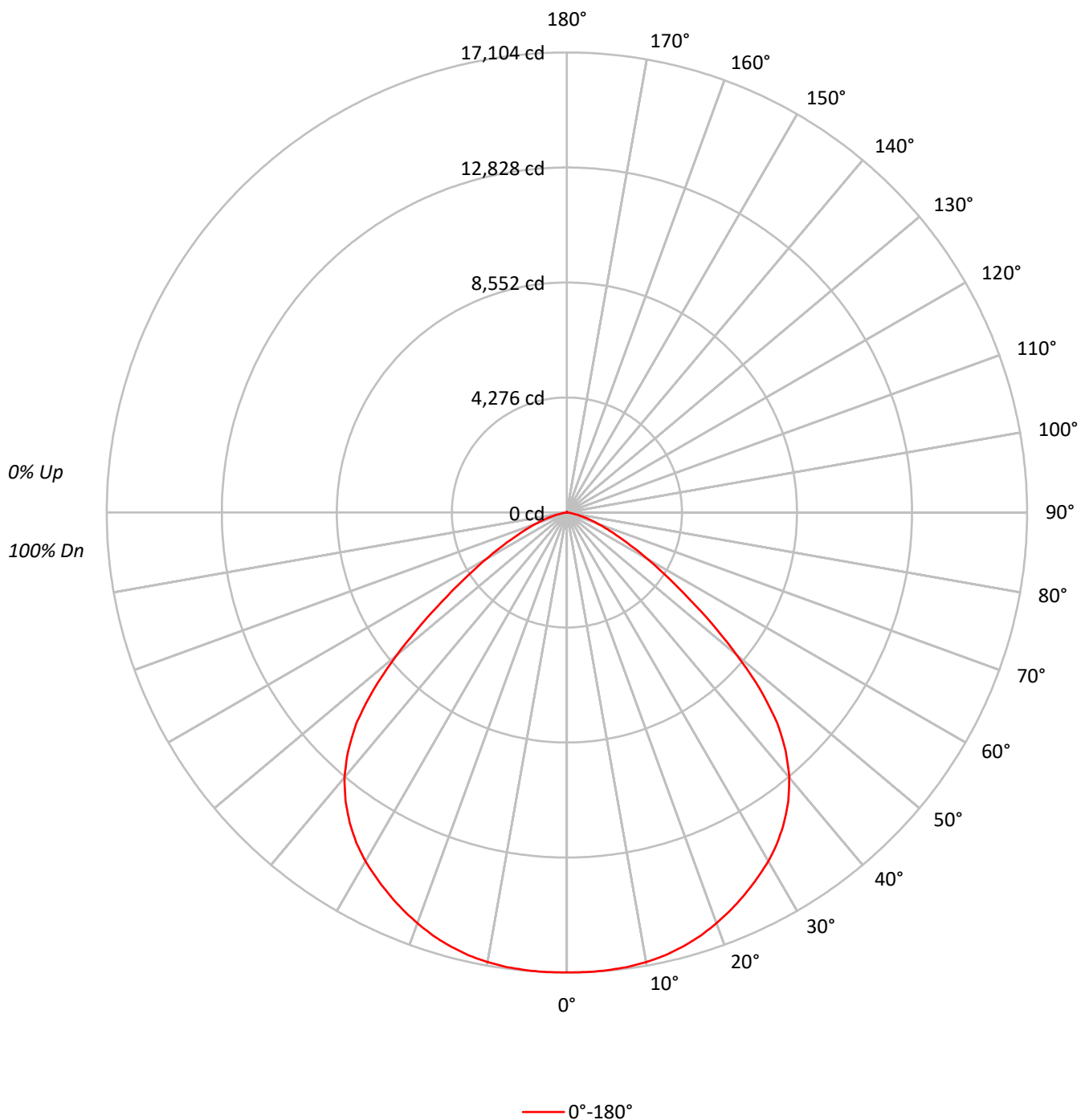
Lumens per Lamp: N/A
Luminaire Lumens: 38649.0 lumens
Efficiency: N/A
Efficacy: 161.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 239.1
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°	169727
5°	168656
10°	167908
15°	166823
20°	165152
25°	163259
30°	161521
35°	158518
40°	152755
45°	139969
50°	112918
55°	81404
60°	57811
65°	40235
70°	27406
75°	16815
80°	7503
85°	2544

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 139969 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1627.6	4.2
10°-20°	4715.2	12.2
20°-30°	7223.0	18.7
30°-40°	8779.9	22.7
40°-50°	8355.6	21.6
50°-60°	4988.0	12.9
60°-70°	2165.0	5.6
70°-80°	688.4	1.8
80°-90°	76.9	0.2
90°-100°	2.7	0.0
100°-110°	2.1	0.0
110°-120°	2.2	0.0
120°-130°	3.6	0.0
130°-140°	4.0	0.0
140°-150°	4.9	0.0
150°-160°	4.8	0.0
160°-170°	3.7	0.0
170°-180°	1.4	0.0
0°-30°	13565.7	35.1
0°-40°	22345.6	57.8
0°-60°	35689.1	92.3
0°-90°	38619.5	99.9
90°-120°	7.1	0.0
90°-150°	19.6	0.1
90°-180°	29.0	0.1
0°-180°	38649.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17098	
5°	17086	###
15°	16704	4715
25°	15659	7223
35°	14073	8780
45°	11051	8356
55°	5432	4988
65°	2111	2165
75°	616	688
85°	50	73
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	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	17098.0
2.5°	17104.0
5°	17086.0
7.5°	17048.0
10°	16976.1
12.5°	16864.1
15°	16704.2
17.5°	16502.3
20°	16250.4
22.5°	15972.5
25°	15658.7
27.5°	15326.8
30°	14973.0
32.5°	14561.2
35°	14073.4
37.5°	13517.7
40°	12860.0
42.5°	12044.4
45°	11050.8
47.5°	9753.4
50°	8256.1
52.5°	6780.8
55°	5431.5
57.5°	4354.0
60°	3458.4
62.5°	2702.7
65°	2111.0
67.5°	1625.2
70°	1225.4
72.5°	893.6
75°	615.7
77.5°	389.8
80°	211.9
82.5°	102.0
85°	50.0
87.5°	22.0
90°	6.0
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



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	2.0
115°	2.0
117.5°	2.0
120°	4.0
122.5°	4.0
125°	4.0
127.5°	4.0
130°	4.0
132.5°	4.0
135°	6.0
137.5°	6.0
140°	6.0
142.5°	8.0
145°	8.0
147.5°	8.0
150°	8.0
152.5°	10.0
155°	10.0
157.5°	12.0
160°	12.0
162.5°	12.0
165°	14.0
167.5°	14.0
170°	14.0
172.5°	14.0
175°	16.0
177.5°	16.0
180°	18.0

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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	25.58	27.02	25.95	27.34	27.66	25.58	27.02	25.95	27.34	27.66
	3H	26.09	27.37	26.47	27.71	28.07	26.09	27.37	26.47	27.71	28.07
	4H	26.17	27.37	26.57	27.72	28.10	26.17	27.37	26.57	27.72	28.10
	6H	26.15	27.25	26.57	27.62	28.02	26.15	27.25	26.57	27.62	28.02
	8H	26.12	27.16	26.55	27.56	27.96	26.12	27.16	26.55	27.56	27.96
	12H	26.09	27.08	26.52	27.47	27.90	26.09	27.08	26.52	27.47	27.90
4H	2H	25.75	26.94	26.15	27.29	27.68	25.75	26.94	26.15	27.29	27.68
	3H	26.37	27.35	26.79	27.75	28.15	26.37	27.35	26.79	27.75	28.15
	4H	26.48	27.35	26.92	27.77	28.21	26.48	27.35	26.92	27.77	28.21
	6H	26.49	27.23	26.95	27.68	28.15	26.49	27.23	26.95	27.68	28.15
	8H	26.45	27.15	26.91	27.59	28.06	26.45	27.15	26.91	27.59	28.06
	12H	26.41	27.03	26.90	27.51	27.99	26.41	27.03	26.90	27.51	27.99
8H	4H	26.45	27.15	26.92	27.59	28.07	26.45	27.15	26.92	27.59	28.07
	6H	26.44	27.02	26.95	27.51	28.00	26.44	27.02	26.95	27.51	28.00
	8H	26.40	26.92	26.92	27.43	27.92	26.40	26.92	26.92	27.43	27.92
	12H	26.36	26.83	26.88	27.32	27.89	26.36	26.83	26.88	27.32	27.89
12H	4H	26.41	27.03	26.90	27.52	27.99	26.41	27.03	26.90	27.52	27.99
	6H	26.39	26.91	26.91	27.42	27.92	26.39	26.91	26.91	27.42	27.92
	8H	26.37	26.83	26.88	27.32	27.89	26.37	26.83	26.88	27.32	27.89