

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: P978877

Luminaire Tested: UHBS2-1218-W-L83065-HIGH-3500K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978877
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: UHBS2-1218-W-L83065-HIGH-3500K
Description: UHBS2 LED High Bay at 3500K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

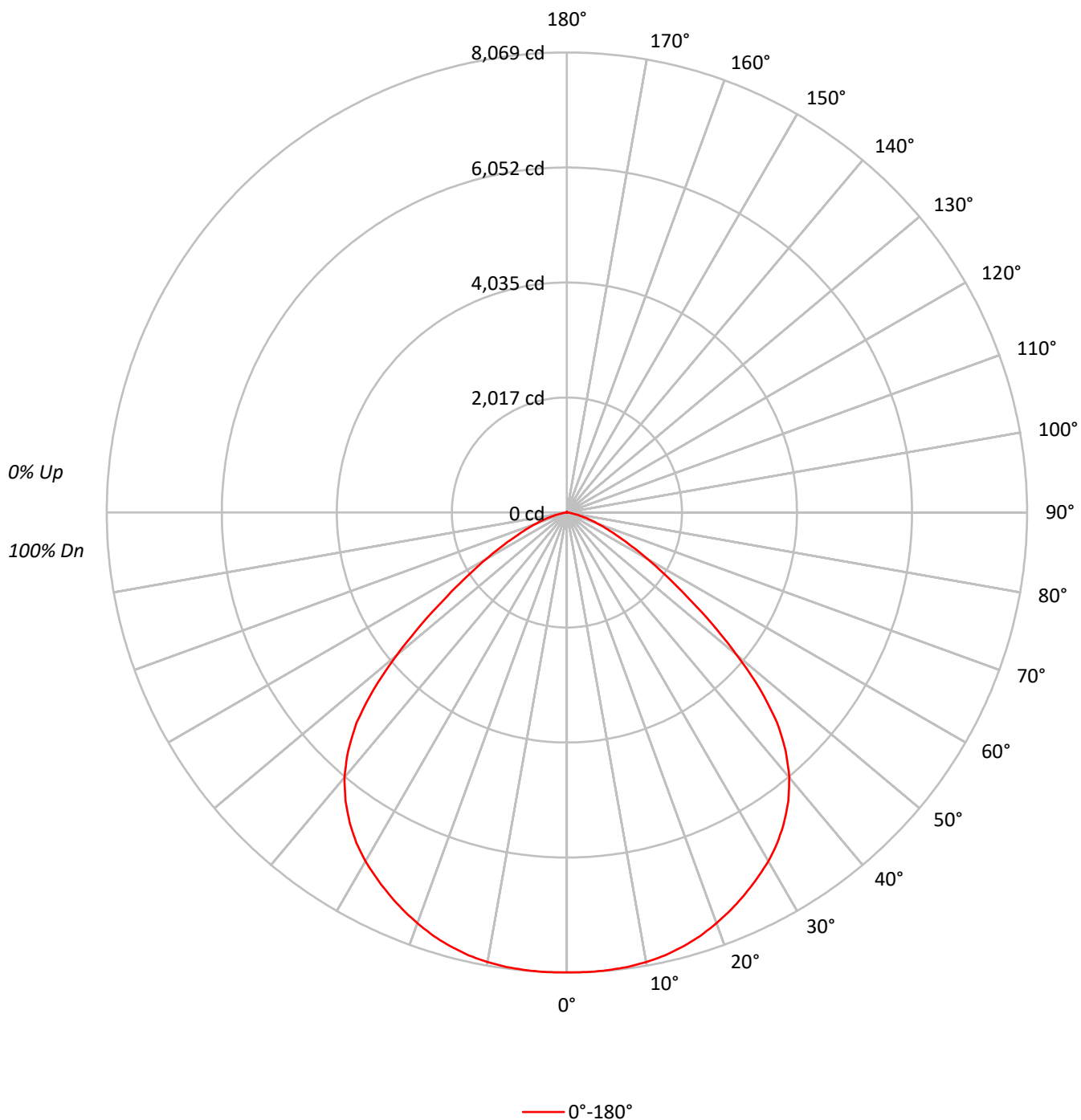
Lumens per Lamp: N/A
Luminaire Lumens: 18232.9 lumens
Efficiency: N/A
Efficacy: 151.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 120.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 6.9
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°	110546
5°	109670
10°	109004
15°	108121
20°	106858
25°	105446
30°	104128
35°	101988
40°	98062
45°	89631
50°	72103
55°	51804
60°	36639
65°	25369
70°	17162
75°	10428
80°	4583
85°	1511

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 89631 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	767.8	4.2
10°-20°	2224.4	12.2
20°-30°	3407.5	18.7
30°-40°	4142.0	22.7
40°-50°	3941.8	21.6
50°-60°	2353.1	12.9
60°-70°	1021.4	5.6
70°-80°	324.8	1.8
80°-90°	36.3	0.2
90°-100°	1.2	0.0
100°-110°	1.0	0.0
110°-120°	1.0	0.0
120°-130°	1.7	0.0
130°-140°	1.9	0.0
140°-150°	2.3	0.0
150°-160°	2.3	0.0
160°-170°	1.8	0.0
170°-180°	0.7	0.0
0°-30°	6399.8	35.1
0°-40°	10541.7	57.8
0°-60°	16836.7	92.3
0°-90°	18219.1	99.9
90°-120°	3.2	0.0
90°-150°	9.1	0.0
90°-180°	14.0	0.1
0°-180°	18232.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8066	
5°	8060	768
15°	7880	2224
25°	7387	3407
35°	6639	4142
45°	5213	3942
55°	2562	2353
65°	996	1021
75°	290	325
85°	24	34
90°	3	2
95°	1	1
105°	1	1
115°	1	1
125°	2	2
135°	3	2
145°	4	2
155°	5	2
165°	7	2
175°	8	1
180°	8	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	8066.1
2.5°	8069.0
5°	8060.5
7.5°	8042.6
10°	8008.6
12.5°	7955.8
15°	7880.3
17.5°	7785.1
20°	7666.3
22.5°	7535.2
25°	7387.1
27.5°	7230.6
30°	7063.6
32.5°	6869.4
35°	6639.3
37.5°	6377.1
40°	6066.8
42.5°	5682.0
45°	5213.3
47.5°	4601.3
50°	3894.9
52.5°	3198.9
55°	2562.3
57.5°	2054.0
60°	1631.5
62.5°	1275.0
65°	995.9
67.5°	766.7
70°	578.1
72.5°	421.6
75°	290.5
77.5°	183.9
80°	100.0
82.5°	48.1
85°	23.6
87.5°	10.4
90°	2.8
92.5°	0.9
95°	0.9
97.5°	0.9
100°	0.9
102.5°	0.9
105°	0.9
107.5°	0.9
110°	0.9



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.9
115°	0.9
117.5°	0.9
120°	1.9
122.5°	1.9
125°	1.9
127.5°	1.9
130°	1.9
132.5°	1.9
135°	2.8
137.5°	2.8
140°	2.8
142.5°	3.8
145°	3.8
147.5°	3.8
150°	3.8
152.5°	4.7
155°	4.7
157.5°	5.7
160°	5.7
162.5°	5.7
165°	6.6
167.5°	6.6
170°	6.6
172.5°	6.6
175°	7.5
177.5°	7.5
180°	8.5

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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	23.98	25.43	24.35	25.74	26.06	23.98	25.43	24.35	25.74	26.06
	3H	24.49	25.77	24.87	26.10	26.47	24.49	25.77	24.87	26.10	26.47
	4H	24.57	25.76	24.97	26.11	26.49	24.57	25.76	24.97	26.11	26.49
	6H	24.55	25.64	24.96	26.01	26.41	24.55	25.64	24.96	26.01	26.41
	8H	24.51	25.56	24.94	25.95	26.35	24.51	25.56	24.94	25.95	26.35
	12H	24.48	25.48	24.91	25.86	26.29	24.48	25.48	24.91	25.86	26.29
4H	2H	24.15	25.34	24.55	25.69	26.08	24.15	25.34	24.55	25.69	26.08
	3H	24.77	25.74	25.18	26.14	26.55	24.77	25.74	25.18	26.14	26.55
	4H	24.87	25.74	25.30	26.16	26.60	24.87	25.74	25.30	26.16	26.60
	6H	24.87	25.62	25.33	26.07	26.53	24.87	25.62	25.33	26.07	26.53
	8H	24.83	25.53	25.30	25.98	26.45	24.83	25.53	25.30	25.98	26.45
	12H	24.79	25.42	25.28	25.90	26.37	24.79	25.42	25.28	25.90	26.37
8H	4H	24.83	25.53	25.30	25.98	26.45	24.83	25.53	25.30	25.98	26.45
	6H	24.83	25.40	25.33	25.90	26.38	24.83	25.40	25.33	25.90	26.38
	8H	24.78	25.30	25.30	25.81	26.31	24.78	25.30	25.30	25.81	26.31
	12H	24.75	25.21	25.26	25.70	26.27	24.75	25.21	25.26	25.70	26.27
12H	4H	24.80	25.42	25.28	25.90	26.38	24.80	25.42	25.28	25.90	26.38
	6H	24.77	25.29	25.29	25.81	26.30	24.77	25.29	25.29	25.81	26.30
	8H	24.75	25.21	25.26	25.70	26.27	24.75	25.21	25.26	25.70	26.27