

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: P978879

Luminaire Tested: UHBS2-1218-W-L83065-HIGH-5000K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978879
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-5000K
Description: UHBS2 LED High Bay at 5000K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

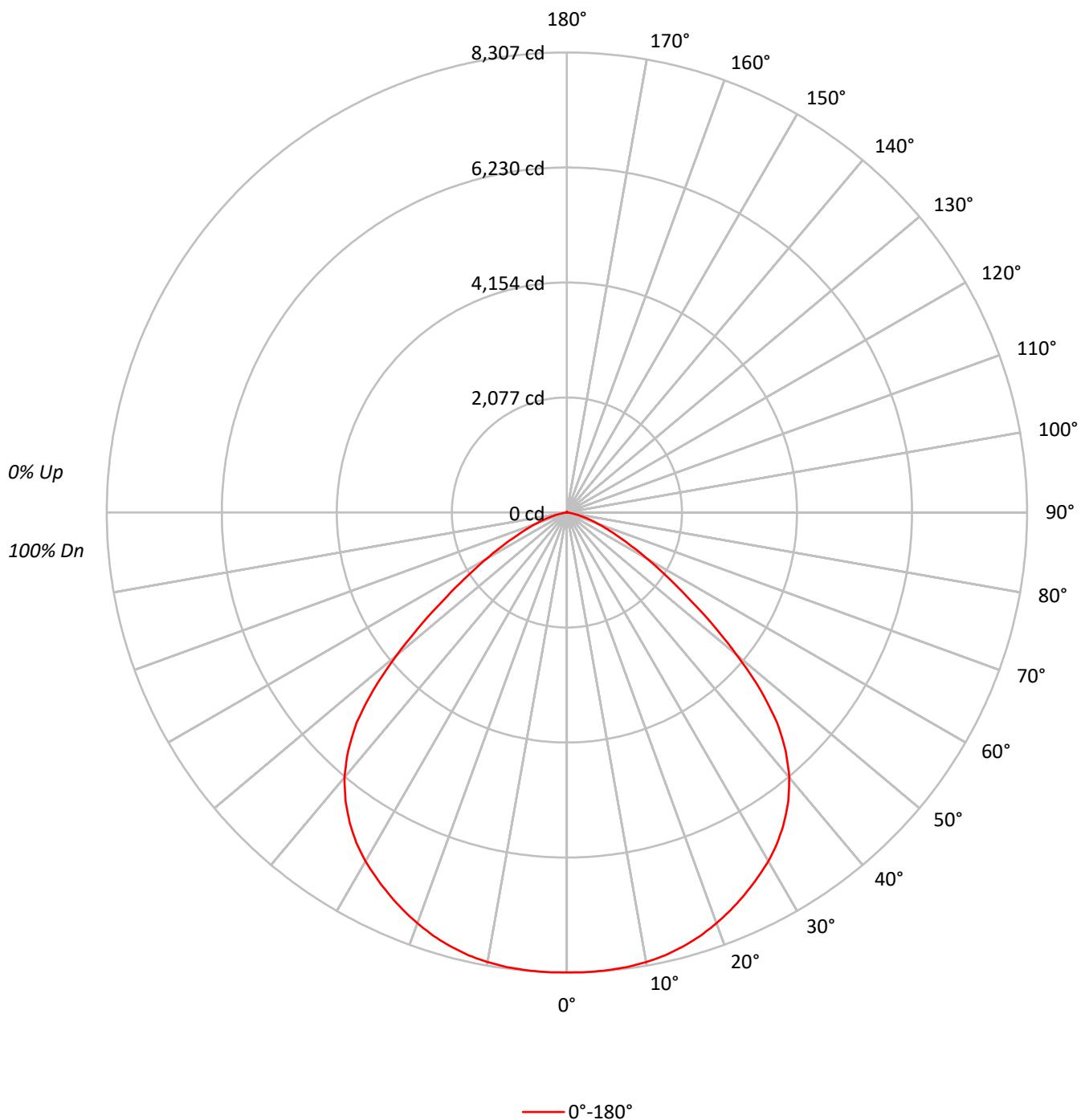
Lumens per Lamp: N/A
Luminaire Lumens: 18771.0 lumens
Efficiency: N/A
Efficacy: 157.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 119.2
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°	113808
5°	112905
10°	112220
15°	111312
20°	110011
25°	108558
30°	107202
35°	104997
40°	100956
45°	92277
50°	74230
55°	53332
60°	37722
65°	26118
70°	17669
75°	10733
80°	4716
85°	1556

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 92277 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	790.5	4.2
10°-20°	2290.1	12.2
20°-30°	3508.0	18.7
30°-40°	4264.2	22.7
40°-50°	4058.1	21.6
50°-60°	2422.5	12.9
60°-70°	1051.5	5.6
70°-80°	334.3	1.8
80°-90°	37.4	0.2
90°-100°	1.4	0.0
100°-110°	1.1	0.0
110°-120°	1.1	0.0
120°-130°	1.7	0.0
130°-140°	1.9	0.0
140°-150°	2.4	0.0
150°-160°	2.3	0.0
160°-170°	1.8	0.0
170°-180°	0.7	0.0
0°-30°	6588.6	35.1
0°-40°	10852.8	57.8
0°-60°	17333.5	92.3
0°-90°	18756.7	99.9
90°-120°	3.5	0.0
90°-150°	9.5	0.1
90°-180°	14.0	0.1
0°-180°	18771.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8304	
5°	8298	790
15°	8113	2290
25°	7605	3508
35°	6835	4264
45°	5367	4058
55°	2638	2423
65°	1025	1052
75°	299	334
85°	24	35
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°	9	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	8304.1
2.5°	8307.1
5°	8298.3
7.5°	8279.9
10°	8244.9
12.5°	8190.5
15°	8112.9
17.5°	8014.8
20°	7892.5
22.5°	7757.5
25°	7605.1
27.5°	7443.9
30°	7272.1
32.5°	7072.1
35°	6835.2
37.5°	6565.3
40°	6245.8
42.5°	5849.7
45°	5367.2
47.5°	4737.0
50°	4009.8
52.5°	3293.3
55°	2637.9
57.5°	2114.6
60°	1679.7
62.5°	1312.7
65°	1025.3
67.5°	789.3
70°	595.2
72.5°	434.0
75°	299.0
77.5°	189.3
80°	102.9
82.5°	49.5
85°	24.3
87.5°	10.7
90°	2.9
92.5°	1.0
95°	1.0
97.5°	1.0
100°	1.0
102.5°	1.0
105°	1.0
107.5°	1.0
110°	1.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.0
115°	1.0
117.5°	1.0
120°	1.9
122.5°	1.9
125°	1.9
127.5°	1.9
130°	1.9
132.5°	1.9
135°	2.9
137.5°	2.9
140°	2.9
142.5°	3.9
145°	3.9
147.5°	3.9
150°	3.9
152.5°	4.9
155°	4.9
157.5°	5.8
160°	5.8
162.5°	5.8
165°	6.8
167.5°	6.8
170°	6.8
172.5°	6.8
175°	7.8
177.5°	7.8
180°	8.7

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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	24.08	25.53	24.45	25.84	26.16	24.08	25.53	24.45	25.84	26.16
	3H	24.59	25.87	24.97	26.20	26.57	24.59	25.87	24.97	26.20	26.57
	4H	24.67	25.86	25.07	26.21	26.59	24.67	25.86	25.07	26.21	26.59
	6H	24.65	25.75	25.06	26.12	26.51	24.65	25.75	25.06	26.12	26.51
	8H	24.62	25.66	25.05	26.05	26.45	24.62	25.66	25.05	26.05	26.45
	12H	24.58	25.58	25.01	25.96	26.39	24.58	25.58	25.01	25.96	26.39
4H	2H	24.25	25.44	24.65	25.80	26.18	24.25	25.44	24.65	25.80	26.18
	3H	24.87	25.84	25.28	26.24	26.65	24.87	25.84	25.28	26.24	26.65
	4H	24.97	25.84	25.41	26.26	26.70	24.97	25.84	25.41	26.26	26.70
	6H	24.97	25.72	25.43	26.17	26.63	24.97	25.72	25.43	26.17	26.63
	8H	24.93	25.63	25.40	26.08	26.55	24.93	25.63	25.40	26.08	26.55
	12H	24.90	25.52	25.38	26.00	26.47	24.90	25.52	25.38	26.00	26.47
8H	4H	24.93	25.63	25.40	26.08	26.55	24.93	25.63	25.40	26.08	26.55
	6H	24.93	25.50	25.43	26.00	26.48	24.93	25.50	25.43	26.00	26.48
	8H	24.88	25.40	25.40	25.92	26.41	24.88	25.40	25.40	25.92	26.41
	12H	24.85	25.31	25.36	25.80	26.37	24.85	25.31	25.36	25.80	26.37
12H	4H	24.90	25.52	25.38	26.00	26.48	24.90	25.52	25.38	26.00	26.48
	6H	24.87	25.39	25.39	25.91	26.40	24.87	25.39	25.39	25.91	26.40
	8H	24.85	25.31	25.36	25.80	26.37	24.85	25.31	25.36	25.80	26.37