

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: P978878

Luminaire Tested: UHBS2-1218-W-L83065-HIGH-4000K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978878
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-4000K
Description: UHBS2 LED High Bay at 4000K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

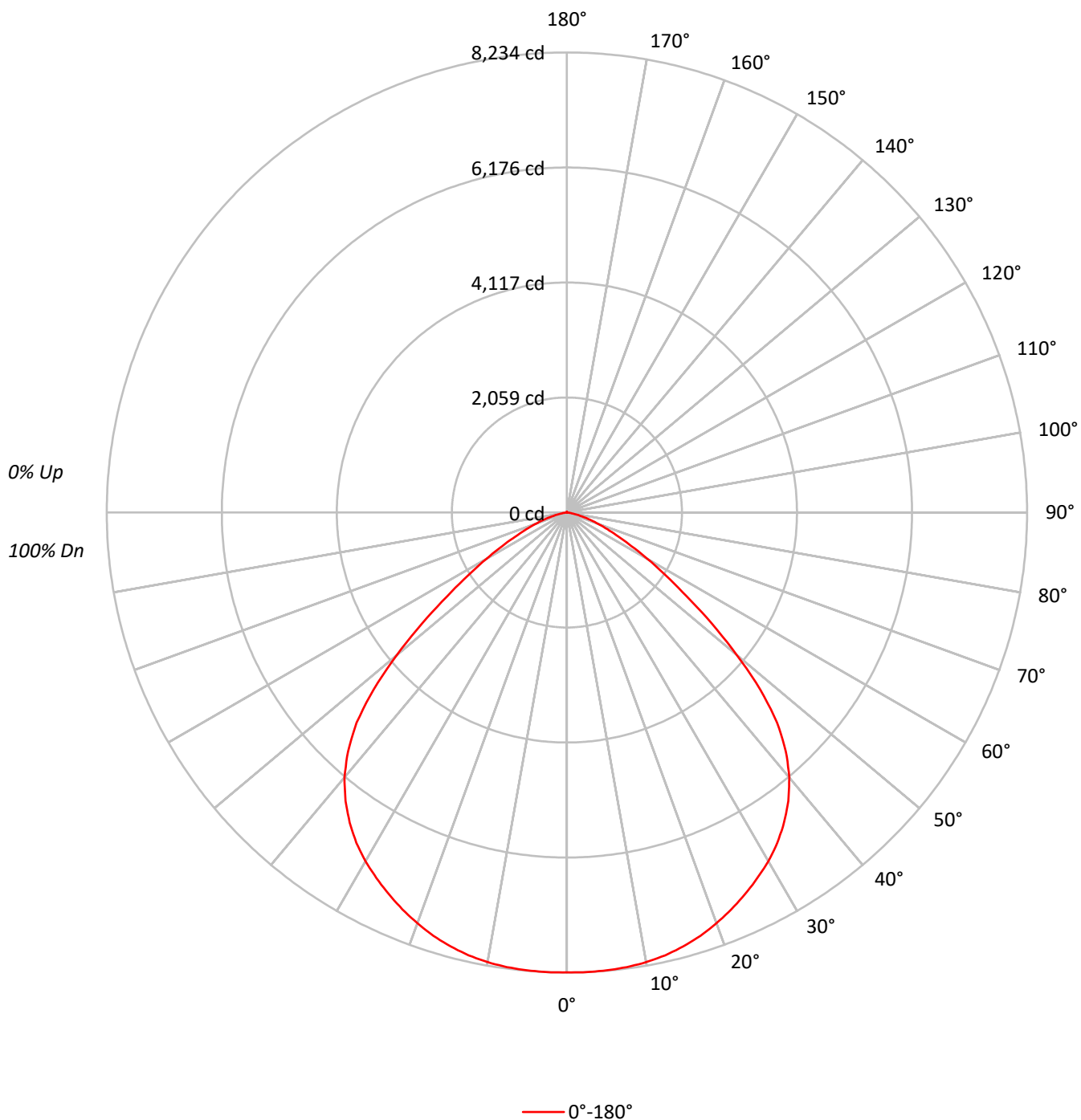
Lumens per Lamp: N/A
Luminaire Lumens: 18607.1 lumens
Efficiency: N/A
Efficacy: 156.2 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 119.1
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°	112814
5°	111919
10°	111240
15°	110340
20°	109049
25°	107609
30°	106265
35°	104079
40°	100075
45°	91471
50°	73582
55°	52867
60°	37392
65°	25889
70°	17515
75°	10639
80°	4675
85°	1543

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 91471 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	783.6	4.2
10°-20°	2270.1	12.2
20°-30°	3477.4	18.7
30°-40°	4226.9	22.7
40°-50°	4022.7	21.6
50°-60°	2401.4	12.9
60°-70°	1042.3	5.6
70°-80°	331.4	1.8
80°-90°	37.0	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°	2.3	0.0
150°-160°	2.3	0.0
160°-170°	1.8	0.0
170°-180°	0.7	0.0
0°-30°	6531.0	35.1
0°-40°	10758.0	57.8
0°-60°	17182.0	92.3
0°-90°	18592.8	99.9
90°-120°	3.5	0.0
90°-150°	9.5	0.1
90°-180°	14.0	0.1
0°-180°	18607.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8232	
5°	8226	784
15°	8042	2270
25°	7539	3477
35°	6775	4227
45°	5320	4023
55°	2615	2401
65°	1016	1042
75°	296	331
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°	8231.6
2.5°	8234.5
5°	8225.8
7.5°	8207.5
10°	8172.9
12.5°	8119.0
15°	8042.0
17.5°	7944.8
20°	7823.5
22.5°	7689.7
25°	7538.6
27.5°	7378.9
30°	7208.5
32.5°	7010.3
35°	6775.4
37.5°	6507.9
40°	6191.3
42.5°	5798.6
45°	5320.3
47.5°	4695.7
50°	3974.8
52.5°	3264.5
55°	2614.9
57.5°	2096.2
60°	1665.0
62.5°	1301.2
65°	1016.3
67.5°	782.4
70°	590.0
72.5°	430.2
75°	296.4
77.5°	187.7
80°	102.0
82.5°	49.1
85°	24.1
87.5°	10.6
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°	3.8
145°	3.8
147.5°	3.8
150°	3.8
152.5°	4.8
155°	4.8
157.5°	5.8
160°	5.8
162.5°	5.8
165°	6.7
167.5°	6.7
170°	6.7
172.5°	6.7
175°	7.7
177.5°	7.7
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	24.05	25.50	24.42	25.81	26.13	24.05	25.50	24.42	25.81	26.13
	3H	24.56	25.84	24.94	26.17	26.54	24.56	25.84	24.94	26.17	26.54
	4H	24.64	25.83	25.04	26.18	26.56	24.64	25.83	25.04	26.18	26.56
	6H	24.62	25.72	25.03	26.09	26.48	24.62	25.72	25.03	26.09	26.48
	8H	24.59	25.63	25.01	26.02	26.42	24.59	25.63	25.01	26.02	26.42
	12H	24.55	25.55	24.98	25.93	26.36	24.55	25.55	24.98	25.93	26.36
4H	2H	24.22	25.41	24.62	25.77	26.15	24.22	25.41	24.62	25.77	26.15
	3H	24.84	25.81	25.25	26.21	26.62	24.84	25.81	25.25	26.21	26.62
	4H	24.94	25.81	25.37	26.23	26.67	24.94	25.81	25.37	26.23	26.67
	6H	24.94	25.69	25.40	26.14	26.60	24.94	25.69	25.40	26.14	26.60
	8H	24.90	25.60	25.37	26.05	26.52	24.90	25.60	25.37	26.05	26.52
	12H	24.87	25.49	25.35	25.97	26.44	24.87	25.49	25.35	25.97	26.44
8H	4H	24.90	25.60	25.37	26.05	26.52	24.90	25.60	25.37	26.05	26.52
	6H	24.90	25.47	25.40	25.97	26.45	24.90	25.47	25.40	25.97	26.45
	8H	24.85	25.37	25.37	25.88	26.38	24.85	25.37	25.37	25.88	26.38
	12H	24.82	25.28	25.33	25.77	26.34	24.82	25.28	25.33	25.77	26.34
12H	4H	24.87	25.49	25.35	25.97	26.45	24.87	25.49	25.35	25.97	26.45
	6H	24.84	25.36	25.36	25.88	26.37	24.84	25.36	25.36	25.88	26.37
	8H	24.82	25.28	25.33	25.77	26.34	24.82	25.28	25.33	25.77	26.34