

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: P978882

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

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978882
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-LOW-3500K
Description: UHBS2 LED High Bay at 3500K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

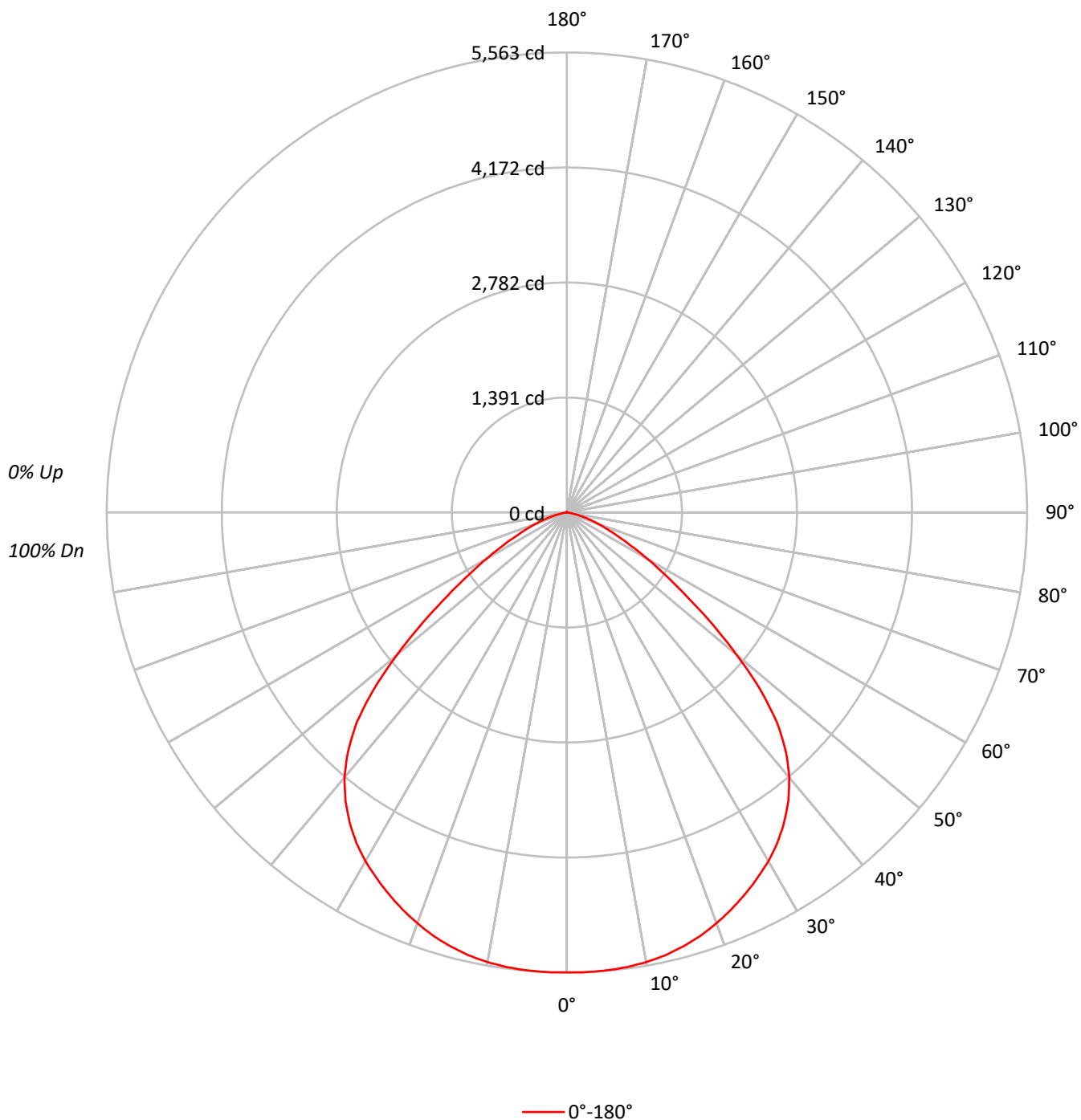
Lumens per Lamp: N/A
Luminaire Lumens: 12571.2 lumens
Efficiency: N/A
Efficacy: 158.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 79.4
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 7.2
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°	76218
5°	75613
10°	75154
15°	74546
20°	73674
25°	72702
30°	71793
35°	70316
40°	67610
45°	61798
50°	49713
55°	35717
60°	25262
65°	17490
70°	11833
75°	7190
80°	3158
85°	1044

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 61798 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.4	4.2
10°-20°	1533.7	12.2
20°-30°	2349.3	18.7
30°-40°	2855.7	22.7
40°-50°	2717.7	21.6
50°-60°	1622.4	12.9
60°-70°	704.2	5.6
70°-80°	223.9	1.8
80°-90°	25.1	0.2
90°-100°	0.9	0.0
100°-110°	0.7	0.0
110°-120°	0.8	0.0
120°-130°	1.2	0.0
130°-140°	1.3	0.0
140°-150°	1.6	0.0
150°-160°	1.6	0.0
160°-170°	1.2	0.0
170°-180°	0.5	0.0
0°-30°	4412.4	35.1
0°-40°	7268.1	57.8
0°-60°	11608.3	92.3
0°-90°	12561.4	99.9
90°-120°	2.4	0.0
90°-150°	6.5	0.1
90°-180°	10.0	0.1
0°-180°	12571.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5561	
5°	5557	529
15°	5433	1534
25°	5093	2349
35°	4578	2856
45°	3594	2718
55°	1767	1622
65°	687	704
75°	200	224
85°	16	24
90°	2	2
95°	1	1
105°	1	1
115°	1	1
125°	1	1
135°	2	1
145°	3	2
155°	3	2
165°	5	1
175°	5	0
180°	6	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5561.3
2.5°	5563.3
5°	5557.4
7.5°	5545.1
10°	5521.6
12.5°	5485.2
15°	5433.2
17.5°	5367.5
20°	5285.6
22.5°	5195.2
25°	5093.2
27.5°	4985.2
30°	4870.1
32.5°	4736.2
35°	4577.5
37.5°	4396.8
40°	4182.8
42.5°	3917.6
45°	3594.4
47.5°	3172.4
50°	2685.4
52.5°	2205.5
55°	1766.6
57.5°	1416.2
60°	1124.9
62.5°	879.1
65°	686.6
67.5°	528.6
70°	398.6
72.5°	290.6
75°	200.3
77.5°	126.8
80°	68.9
82.5°	33.2
85°	16.3
87.5°	7.2
90°	2.0
92.5°	0.7
95°	0.7
97.5°	0.7
100°	0.7
102.5°	0.7
105°	0.7
107.5°	0.7
110°	0.7



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.7
115°	0.7
117.5°	0.7
120°	1.3
122.5°	1.3
125°	1.3
127.5°	1.3
130°	1.3
132.5°	1.3
135°	2.0
137.5°	2.0
140°	2.0
142.5°	2.6
145°	2.6
147.5°	2.6
150°	2.6
152.5°	3.3
155°	3.3
157.5°	3.9
160°	3.9
162.5°	3.9
165°	4.6
167.5°	4.6
170°	4.6
172.5°	4.6
175°	5.2
177.5°	5.2
180°	5.9

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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	22.69	24.14	23.06	24.45	24.77	22.69	24.14	23.06	24.45	24.77
	3H	23.20	24.48	23.58	24.81	25.18	23.20	24.48	23.58	24.81	25.18
	4H	23.27	24.47	23.68	24.82	25.20	23.27	24.47	23.68	24.82	25.20
	6H	23.25	24.35	23.67	24.72	25.12	23.25	24.35	23.67	24.72	25.12
	8H	23.22	24.26	23.65	24.66	25.06	23.22	24.26	23.65	24.66	25.06
	12H	23.19	24.18	23.62	24.57	25.00	23.19	24.18	23.62	24.57	25.00
4H	2H	22.86	24.05	23.26	24.40	24.79	22.86	24.05	23.26	24.40	24.79
	3H	23.47	24.45	23.89	24.85	25.25	23.47	24.45	23.89	24.85	25.25
	4H	23.58	24.44	24.01	24.86	25.31	23.58	24.44	24.01	24.86	25.31
	6H	23.58	24.33	24.04	24.77	25.24	23.58	24.33	24.04	24.77	25.24
	8H	23.54	24.24	24.01	24.69	25.16	23.54	24.24	24.01	24.69	25.16
	12H	23.50	24.12	23.99	24.61	25.08	23.50	24.12	23.99	24.61	25.08
8H	4H	23.54	24.24	24.01	24.69	25.16	23.54	24.24	24.01	24.69	25.16
	6H	23.54	24.11	24.04	24.61	25.09	23.54	24.11	24.04	24.61	25.09
	8H	23.49	24.01	24.01	24.52	25.01	23.49	24.01	24.01	24.52	25.01
	12H	23.46	23.92	23.97	24.41	24.98	23.46	23.92	23.97	24.41	24.98
12H	4H	23.51	24.13	23.99	24.61	25.08	23.51	24.13	23.99	24.61	25.08
	6H	23.48	24.00	24.00	24.51	25.01	23.48	24.00	24.00	24.51	25.01
	8H	23.46	23.92	23.97	24.41	24.98	23.46	23.92	23.97	24.41	24.98