

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: P978890

Luminaire Tested: UHBS2-1218-W-L83065-MID-6500K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978890
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-MID-6500K
Description: UHBS2 LED High Bay at 6500K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

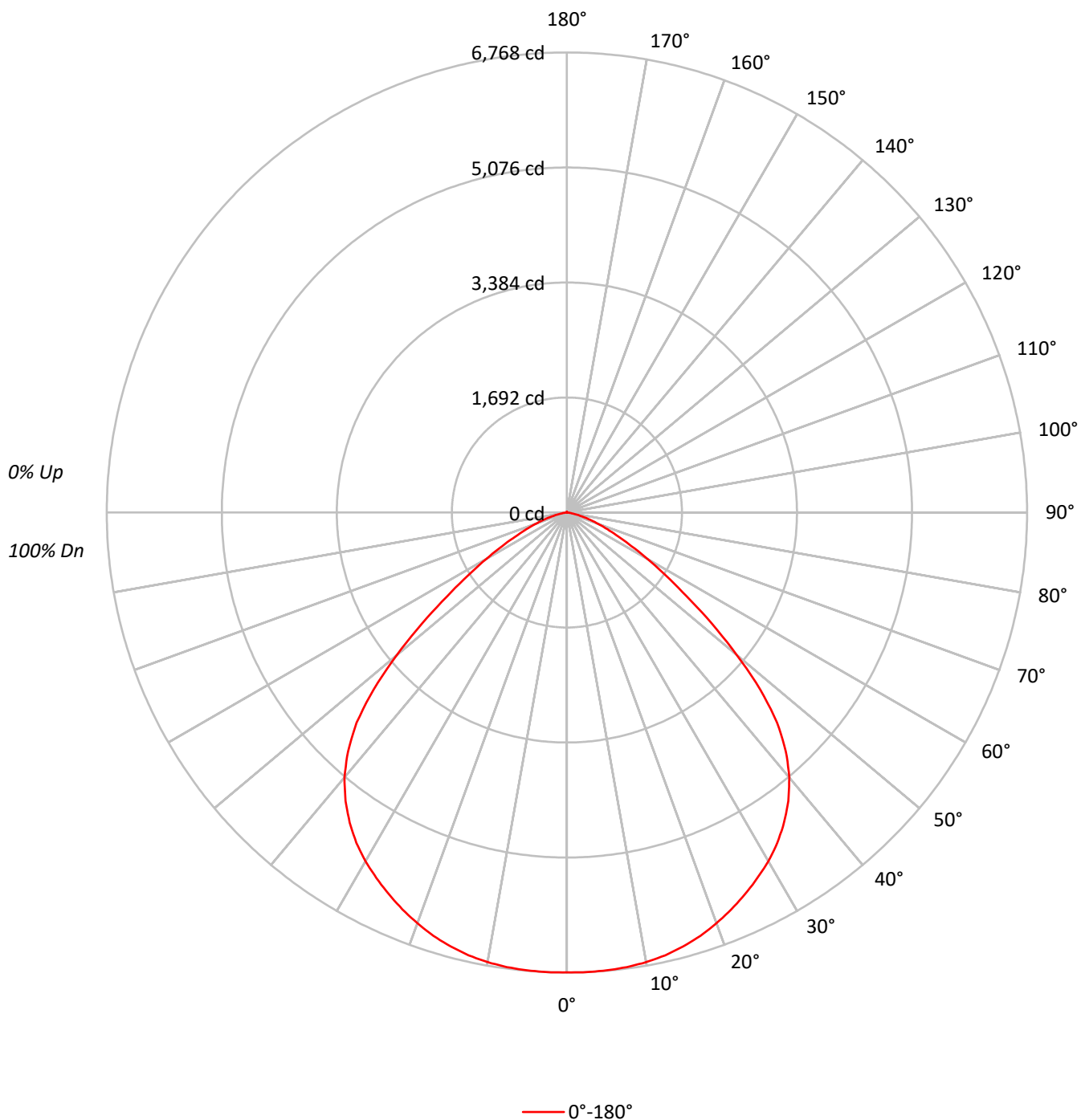
Lumens per Lamp: N/A
Luminaire Lumens: 15294.1 lumens
Efficiency: N/A
Efficacy: 155.0 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 98.7
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 7.15
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°	92727
5°	91992
10°	91434
15°	90693
20°	89633
25°	88450
30°	87344
35°	85548
40°	82256
45°	75184
50°	60481
55°	43454
60°	30733
65°	21281
70°	14395
75°	8744
80°	3845
85°	1268

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 75184 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.1	4.2
10°-20°	1865.9	12.2
20°-30°	2858.2	18.7
30°-40°	3474.3	22.7
40°-50°	3306.4	21.6
50°-60°	1973.8	12.9
60°-70°	856.7	5.6
70°-80°	272.4	1.8
80°-90°	30.4	0.2
90°-100°	1.1	0.0
100°-110°	0.8	0.0
110°-120°	0.9	0.0
120°-130°	1.4	0.0
130°-140°	1.6	0.0
140°-150°	1.9	0.0
150°-160°	1.9	0.0
160°-170°	1.5	0.0
170°-180°	0.6	0.0
0°-30°	5368.2	35.1
0°-40°	8842.5	57.8
0°-60°	14122.8	92.3
0°-90°	15282.3	99.9
90°-120°	2.8	0.0
90°-150°	7.8	0.1
90°-180°	12.0	0.1
0°-180°	15294.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6766	
5°	6761	644
15°	6610	1866
25°	6196	2858
35°	5569	3474
45°	4373	3306
55°	2149	1974
65°	835	857
75°	244	272
85°	20	29
90°	2	2
95°	1	1
105°	1	1
115°	1	1
125°	2	1
135°	2	2
145°	3	2
155°	4	2
165°	6	1
175°	6	1
180°	7	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	6765.9
2.5°	6768.3
5°	6761.2
7.5°	6746.2
10°	6717.7
12.5°	6673.4
15°	6610.1
17.5°	6530.2
20°	6430.5
22.5°	6320.6
25°	6196.4
27.5°	6065.1
30°	5925.0
32.5°	5762.1
35°	5569.1
37.5°	5349.2
40°	5088.9
42.5°	4766.1
45°	4373.0
47.5°	3859.6
50°	3267.1
52.5°	2683.3
55°	2149.3
57.5°	1722.9
60°	1368.5
62.5°	1069.5
65°	835.4
67.5°	643.1
70°	484.9
72.5°	353.6
75°	243.6
77.5°	154.3
80°	83.9
82.5°	40.3
85°	19.8
87.5°	8.7
90°	2.4
92.5°	0.8
95°	0.8
97.5°	0.8
100°	0.8
102.5°	0.8
105°	0.8
107.5°	0.8
110°	0.8



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.8
115°	0.8
117.5°	0.8
120°	1.6
122.5°	1.6
125°	1.6
127.5°	1.6
130°	1.6
132.5°	1.6
135°	2.4
137.5°	2.4
140°	2.4
142.5°	3.2
145°	3.2
147.5°	3.2
150°	3.2
152.5°	4.0
155°	4.0
157.5°	4.7
160°	4.7
162.5°	4.7
165°	5.5
167.5°	5.5
170°	5.5
172.5°	5.5
175°	6.3
177.5°	6.3
180°	7.1

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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	23.37	24.82	23.74	25.13	25.45	23.37	24.82	23.74	25.13	25.45
	3H	23.88	25.16	24.26	25.49	25.86	23.88	25.16	24.26	25.49	25.86
	4H	23.95	25.15	24.36	25.50	25.88	23.95	25.15	24.36	25.50	25.88
	6H	23.94	25.03	24.35	25.40	25.80	23.94	25.03	24.35	25.40	25.80
	8H	23.90	24.95	24.33	25.34	25.74	23.90	24.95	24.33	25.34	25.74
	12H	23.87	24.87	24.30	25.25	25.68	23.87	24.87	24.30	25.25	25.68
4H	2H	23.54	24.73	23.94	25.08	25.47	23.54	24.73	23.94	25.08	25.47
	3H	24.15	25.13	24.57	25.53	25.93	24.15	25.13	24.57	25.53	25.93
	4H	24.26	25.13	24.69	25.55	25.99	24.26	25.13	24.69	25.55	25.99
	6H	24.26	25.01	24.72	25.46	25.92	24.26	25.01	24.72	25.46	25.92
	8H	24.22	24.92	24.69	25.37	25.84	24.22	24.92	24.69	25.37	25.84
	12H	24.18	24.80	24.67	25.29	25.76	24.18	24.80	24.67	25.29	25.76
8H	4H	24.22	24.92	24.69	25.37	25.84	24.22	24.92	24.69	25.37	25.84
	6H	24.22	24.79	24.72	25.29	25.77	24.22	24.79	24.72	25.29	25.77
	8H	24.17	24.69	24.69	25.20	25.70	24.17	24.69	24.69	25.20	25.70
	12H	24.14	24.60	24.65	25.09	25.66	24.14	24.60	24.65	25.09	25.66
12H	4H	24.19	24.81	24.67	25.29	25.76	24.19	24.81	24.67	25.29	25.76
	6H	24.16	24.68	24.68	25.20	25.69	24.16	24.68	24.68	25.20	25.69
	8H	24.14	24.60	24.65	25.09	25.66	24.14	24.60	24.65	25.09	25.66