

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: P978888

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

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978888
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-4000K
Description: UHBS2 LED High Bay at 4000K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

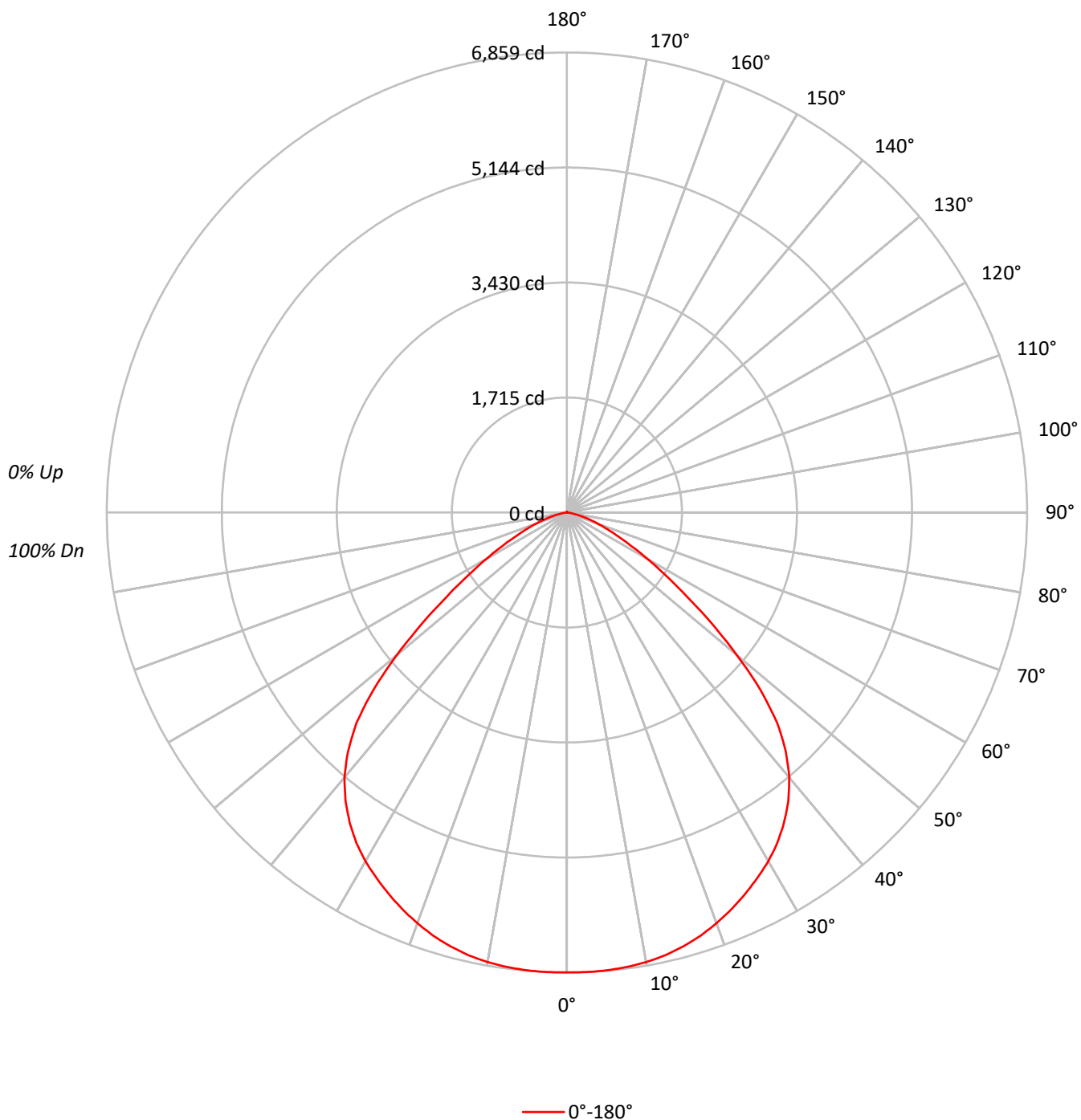
Lumens per Lamp: N/A
Luminaire Lumens: 15498.0 lumens
Efficiency: N/A
Efficacy: 160.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 96.5
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°	93965
5°	93219
10°	92653
15°	91903
20°	90828
25°	89629
30°	88510
35°	86690
40°	83353
45°	76186
50°	61288
55°	44034
60°	31144
65°	21563
70°	14588
75°	8863
80°	3896
85°	1281

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 76186 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.6	4.2
10°-20°	1890.8	12.2
20°-30°	2896.4	18.7
30°-40°	3520.7	22.7
40°-50°	3350.5	21.6
50°-60°	2000.2	12.9
60°-70°	868.2	5.6
70°-80°	276.0	1.8
80°-90°	30.8	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°	5439.8	35.1
0°-40°	8960.5	57.8
0°-60°	14311.2	92.3
0°-90°	15486.2	99.9
90°-120°	2.8	0.0
90°-150°	7.8	0.1
90°-180°	12.0	0.1
0°-180°	15498.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6856	
5°	6851	653
15°	6698	1891
25°	6279	2896
35°	5643	3521
45°	4431	3351
55°	2178	2000
65°	846	868
75°	247	276
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°	6856.2
2.5°	6858.6
5°	6851.4
7.5°	6836.2
10°	6807.3
12.5°	6762.4
15°	6698.3
17.5°	6617.3
20°	6516.3
22.5°	6404.9
25°	6279.0
27.5°	6146.0
30°	6004.1
32.5°	5838.9
35°	5643.4
37.5°	5420.5
40°	5156.8
42.5°	4829.7
45°	4431.3
47.5°	3911.1
50°	3310.7
52.5°	2719.1
55°	2178.0
57.5°	1745.9
60°	1386.8
62.5°	1083.8
65°	846.5
67.5°	651.7
70°	491.4
72.5°	358.3
75°	246.9
77.5°	156.3
80°	85.0
82.5°	40.9
85°	20.0
87.5°	8.8
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°	4.8
160°	4.8
162.5°	4.8
165°	5.6
167.5°	5.6
170°	5.6
172.5°	5.6
175°	6.4
177.5°	6.4
180°	7.2

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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	23.42	24.86	23.78	25.18	25.50	23.42	24.86	23.78	25.18	25.50
	3H	23.93	25.21	24.31	25.54	25.90	23.93	25.21	24.31	25.54	25.90
	4H	24.00	25.20	24.40	25.55	25.93	24.00	25.20	24.40	25.55	25.93
	6H	23.98	25.08	24.40	25.45	25.84	23.98	25.08	24.40	25.45	25.84
	8H	23.95	24.99	24.38	25.38	25.79	23.95	24.99	24.38	25.38	25.79
	12H	23.92	24.91	24.35	25.30	25.73	23.92	24.91	24.35	25.30	25.73
4H	2H	23.58	24.78	23.99	25.13	25.51	23.58	24.78	23.99	25.13	25.51
	3H	24.20	25.17	24.61	25.58	25.98	24.20	25.17	24.61	25.58	25.98
	4H	24.30	25.17	24.74	25.59	26.03	24.30	25.17	24.74	25.59	26.03
	6H	24.31	25.06	24.77	25.50	25.97	24.31	25.06	24.77	25.50	25.97
	8H	24.27	24.97	24.73	25.41	25.88	24.27	24.97	24.73	25.41	25.88
	12H	24.23	24.85	24.72	25.33	25.81	24.23	24.85	24.72	25.33	25.81
8H	4H	24.27	24.97	24.74	25.42	25.89	24.27	24.97	24.74	25.42	25.89
	6H	24.26	24.84	24.76	25.33	25.81	24.26	24.84	24.76	25.33	25.81
	8H	24.22	24.74	24.74	25.25	25.74	24.22	24.74	24.74	25.25	25.74
	12H	24.18	24.64	24.70	25.14	25.71	24.18	24.64	24.70	25.14	25.71
12H	4H	24.23	24.85	24.72	25.34	25.81	24.23	24.85	24.72	25.34	25.81
	6H	24.21	24.73	24.73	25.24	25.73	24.21	24.73	24.73	25.24	25.73
	8H	24.18	24.64	24.70	25.14	25.71	24.18	24.64	24.70	25.14	25.71

END OF REPORT