

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: P978889

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

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978889
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-5000K
Description: UHBS2 LED High Bay at 5000K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

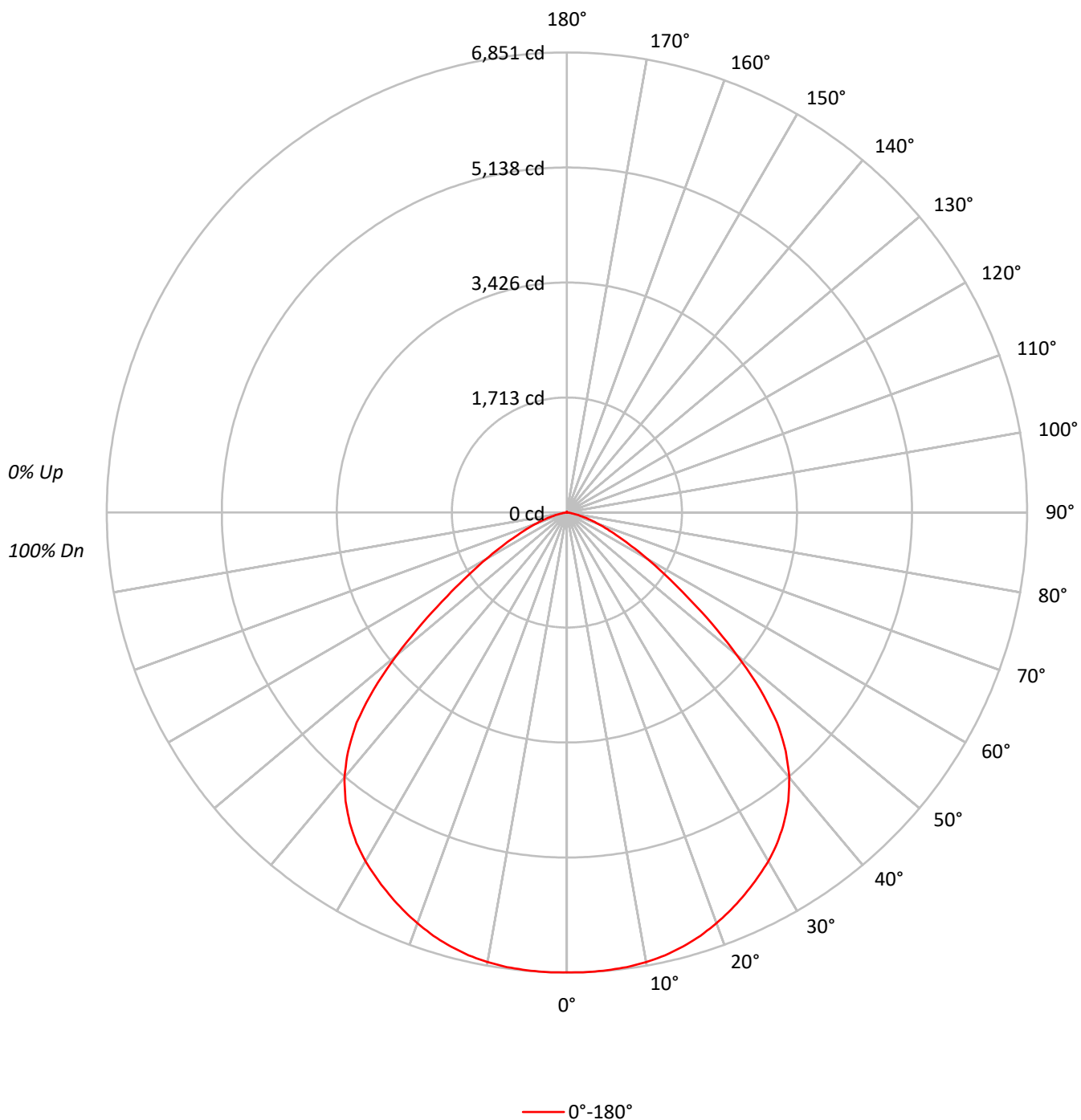
Lumens per Lamp: N/A
Luminaire Lumens: 15481.0 lumens
Efficiency: N/A
Efficacy: 160.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 96.6
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°	93862
5°	93117
10°	92551
15°	91802
20°	90729
25°	89530
30°	88413
35°	86595
40°	83261
45°	76104
50°	61220
55°	43986
60°	31110
65°	21540
70°	14570
75°	8852
80°	3891
85°	1281

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 76104 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.9	4.2
10°-20°	1888.7	12.2
20°-30°	2893.2	18.7
30°-40°	3516.8	22.7
40°-50°	3346.9	21.6
50°-60°	1998.0	12.9
60°-70°	867.2	5.6
70°-80°	275.7	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°	5433.8	35.1
0°-40°	8950.6	57.8
0°-60°	14295.4	92.3
0°-90°	15469.2	99.9
90°-120°	2.8	0.0
90°-150°	7.8	0.1
90°-180°	12.0	0.1
0°-180°	15481.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6849	
5°	6844	652
15°	6691	1889
25°	6272	2893
35°	5637	3517
45°	4426	3347
55°	2176	1998
65°	846	867
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°	6848.7
2.5°	6851.1
5°	6843.9
7.5°	6828.7
10°	6799.8
12.5°	6755.0
15°	6690.9
17.5°	6610.1
20°	6509.2
22.5°	6397.9
25°	6272.1
27.5°	6139.2
30°	5997.5
32.5°	5832.5
35°	5637.2
37.5°	5414.6
40°	5151.1
42.5°	4824.4
45°	4426.5
47.5°	3906.8
50°	3307.0
52.5°	2716.1
55°	2175.6
57.5°	1744.0
60°	1385.3
62.5°	1082.6
65°	845.6
67.5°	651.0
70°	490.8
72.5°	357.9
75°	246.6
77.5°	156.1
80°	84.9
82.5°	40.8
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	23.41	24.86	23.78	25.17	25.49	23.41	24.86	23.78	25.17	25.49
	3H	23.92	25.20	24.30	25.53	25.90	23.92	25.20	24.30	25.53	25.90
	4H	24.00	25.19	24.40	25.54	25.93	24.00	25.19	24.40	25.54	25.93
	6H	23.98	25.08	24.39	25.45	25.84	23.98	25.08	24.39	25.45	25.84
	8H	23.95	24.99	24.38	25.38	25.78	23.95	24.99	24.38	25.38	25.78
	12H	23.91	24.91	24.34	25.29	25.72	23.91	24.91	24.34	25.29	25.72
4H	2H	23.58	24.77	23.98	25.13	25.51	23.58	24.77	23.98	25.13	25.51
	3H	24.20	25.17	24.61	25.57	25.98	24.20	25.17	24.61	25.57	25.98
	4H	24.30	25.17	24.74	25.59	26.03	24.30	25.17	24.74	25.59	26.03
	6H	24.30	25.05	24.76	25.50	25.96	24.30	25.05	24.76	25.50	25.96
	8H	24.26	24.96	24.73	25.41	25.88	24.26	24.96	24.73	25.41	25.88
	12H	24.23	24.85	24.71	25.33	25.80	24.23	24.85	24.71	25.33	25.80
8H	4H	24.27	24.96	24.73	25.41	25.88	24.27	24.96	24.73	25.41	25.88
	6H	24.26	24.83	24.76	25.33	25.81	24.26	24.83	24.76	25.33	25.81
	8H	24.21	24.73	24.73	25.25	25.74	24.21	24.73	24.73	25.25	25.74
	12H	24.18	24.64	24.69	25.13	25.70	24.18	24.64	24.69	25.13	25.70
12H	4H	24.23	24.85	24.71	25.33	25.81	24.23	24.85	24.71	25.33	25.81
	6H	24.21	24.72	24.72	25.24	25.73	24.21	24.72	24.72	25.24	25.73
	8H	24.18	24.64	24.69	25.13	25.70	24.18	24.64	24.69	25.13	25.70