

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: P978886

Luminaire Tested: UHBS2-1218-W-L83065-MID-3000K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978886
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-3000K
Description: UHBS2 LED High Bay at 3000K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

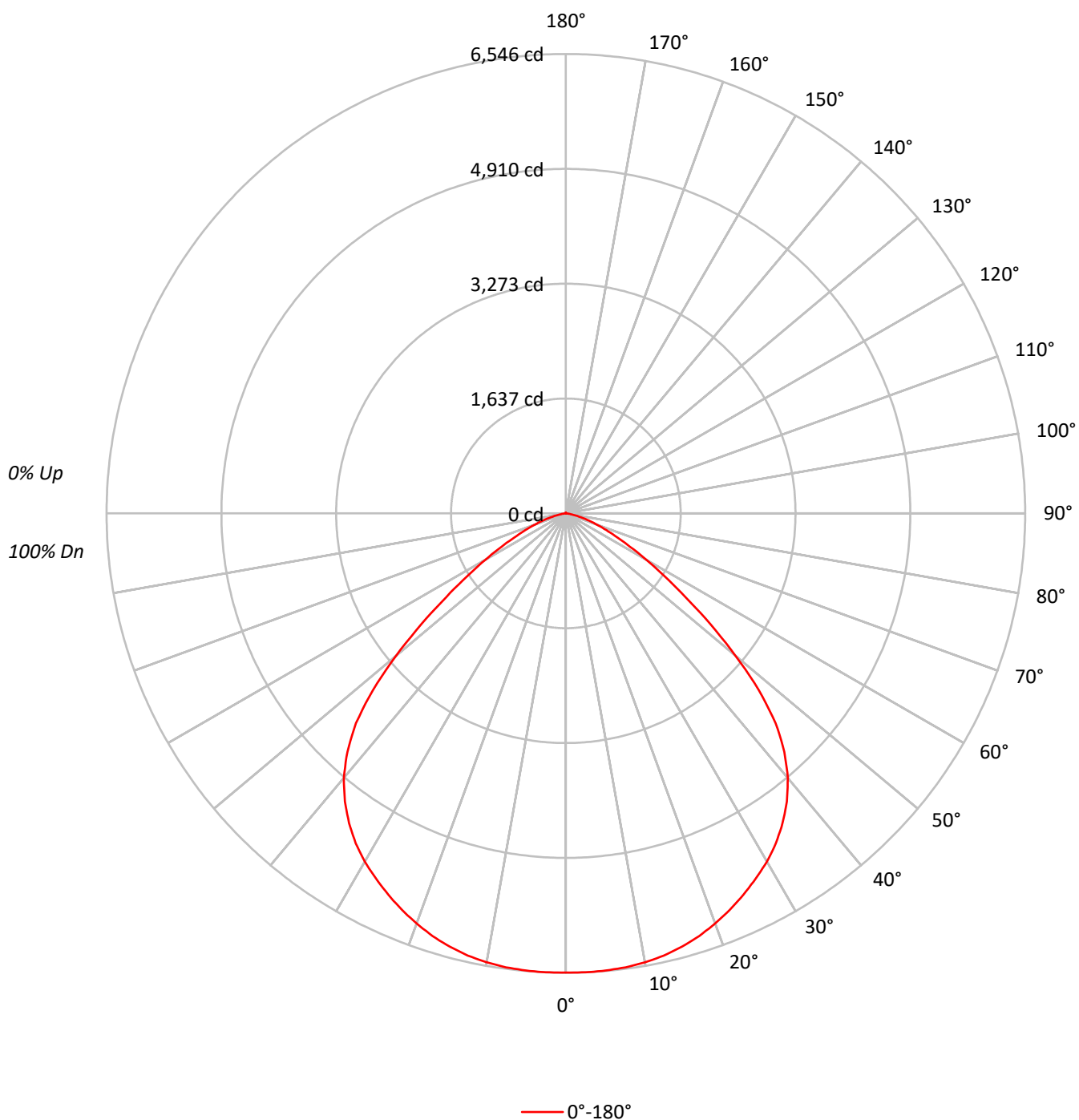
Lumens per Lamp: N/A
Luminaire Lumens: 14791.1 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 98.9
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

TEST NUMBER: P978886

CATALOG NUMBER: UHBS2-1218-W-L83065-MID-3000K

Luminous Intensity Polar Plot



TEST NUMBER: P978886

CATALOG NUMBER: UHBS2-1218-W-L83065-MID-3000K

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°	89678
5°	88966
10°	88427
15°	87710
20°	86684
25°	85540
30°	84472
35°	82734
40°	79550
45°	72712
50°	58491
55°	42024
60°	29722
65°	20580
70°	13923
75°	8457
80°	3717
85°	1223

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 72712 cd/sqm

TEST NUMBER: P978886

CATALOG NUMBER: UHBS2-1218-W-L83065-MID-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	622.9	4.2
10°-20°	1804.5	12.2
20°-30°	2764.2	18.7
30°-40°	3360.1	22.7
40°-50°	3197.7	21.6
50°-60°	1908.9	12.9
60°-70°	828.6	5.6
70°-80°	263.5	1.8
80°-90°	29.4	0.2
90°-100°	1.1	0.0
100°-110°	0.8	0.0
110°-120°	0.9	0.0
120°-130°	1.3	0.0
130°-140°	1.5	0.0
140°-150°	1.9	0.0
150°-160°	1.8	0.0
160°-170°	1.4	0.0
170°-180°	0.5	0.0
0°-30°	5191.6	35.1
0°-40°	8551.7	57.8
0°-60°	13658.2	92.3
0°-90°	14779.7	99.9
90°-120°	2.8	0.0
90°-150°	7.6	0.1
90°-180°	11.0	0.1
0°-180°	14791.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6543	
5°	6539	623
15°	6393	1805
25°	5993	2764
35°	5386	3360
45°	4229	3198
55°	2079	1909
65°	808	829
75°	236	263
85°	19	28
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°	5	1
175°	6	1
180°	7	

TEST NUMBER: P978886

CATALOG NUMBER: UHBS2-1218-W-L83065-MID-3000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	6543.4
2.5°	6545.7
5°	6538.8
7.5°	6524.3
10°	6496.8
12.5°	6453.9
15°	6392.7
17.5°	6315.4
20°	6219.0
22.5°	6112.7
25°	5992.6
27.5°	5865.6
30°	5730.2
32.5°	5572.6
35°	5385.9
37.5°	5173.2
40°	4921.5
42.5°	4609.4
45°	4229.2
47.5°	3732.6
50°	3159.6
52.5°	2595.0
55°	2078.6
57.5°	1666.3
60°	1323.5
62.5°	1034.3
65°	807.9
67.5°	622.0
70°	469.0
72.5°	342.0
75°	235.6
77.5°	149.2
80°	81.1
82.5°	39.0
85°	19.1
87.5°	8.4
90°	2.3
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



TEST NUMBER: P978886

CATALOG NUMBER: UHBS2-1218-W-L83065-MID-3000K

CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.8
115°	0.8
117.5°	0.8
120°	1.5
122.5°	1.5
125°	1.5
127.5°	1.5
130°	1.5
132.5°	1.5
135°	2.3
137.5°	2.3
140°	2.3
142.5°	3.1
145°	3.1
147.5°	3.1
150°	3.1
152.5°	3.8
155°	3.8
157.5°	4.6
160°	4.6
162.5°	4.6
165°	5.4
167.5°	5.4
170°	5.4
172.5°	5.4
175°	6.1
177.5°	6.1
180°	6.9

TEST NUMBER: P978886

CATALOG NUMBER: UHBS2-1218-W-L83065-MID-3000K

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	23.26	24.70	23.62	25.02	25.33	23.26	24.70	23.62	25.02	25.33
	3H	23.76	25.05	24.14	25.38	25.74	23.76	25.05	24.14	25.38	25.74
	4H	23.84	25.03	24.24	25.38	25.77	23.84	25.03	24.24	25.38	25.77
	6H	23.82	24.92	24.23	25.29	25.68	23.82	24.92	24.23	25.29	25.68
	8H	23.79	24.83	24.22	25.22	25.63	23.79	24.83	24.22	25.22	25.63
	12H	23.75	24.75	24.19	25.13	25.57	23.75	24.75	24.19	25.13	25.57
4H	2H	23.42	24.62	23.82	24.97	25.35	23.42	24.62	23.82	24.97	25.35
	3H	24.04	25.01	24.45	25.41	25.82	24.04	25.01	24.45	25.41	25.82
	4H	24.14	25.01	24.58	25.43	25.87	24.14	25.01	24.58	25.43	25.87
	6H	24.14	24.89	24.61	25.34	25.81	24.14	24.89	24.61	25.34	25.81
	8H	24.10	24.80	24.57	25.25	25.72	24.10	24.80	24.57	25.25	25.72
	12H	24.07	24.69	24.55	25.17	25.65	24.07	24.69	24.55	25.17	25.65
8H	4H	24.11	24.81	24.57	25.25	25.72	24.11	24.81	24.57	25.25	25.72
	6H	24.10	24.67	24.60	25.17	25.65	24.10	24.67	24.60	25.17	25.65
	8H	24.06	24.57	24.58	25.09	25.58	24.06	24.57	24.58	25.09	25.58
	12H	24.02	24.48	24.53	24.98	25.55	24.02	24.48	24.53	24.98	25.55
12H	4H	24.07	24.69	24.56	25.17	25.65	24.07	24.69	24.56	25.17	25.65
	6H	24.05	24.57	24.57	25.08	25.57	24.05	24.57	24.57	25.08	25.57
	8H	24.02	24.48	24.54	24.98	25.55	24.02	24.48	24.54	24.98	25.55