

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: P978880

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

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978880
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-HIGH-6500K
Description: UHBS2 LED High Bay at 6500K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

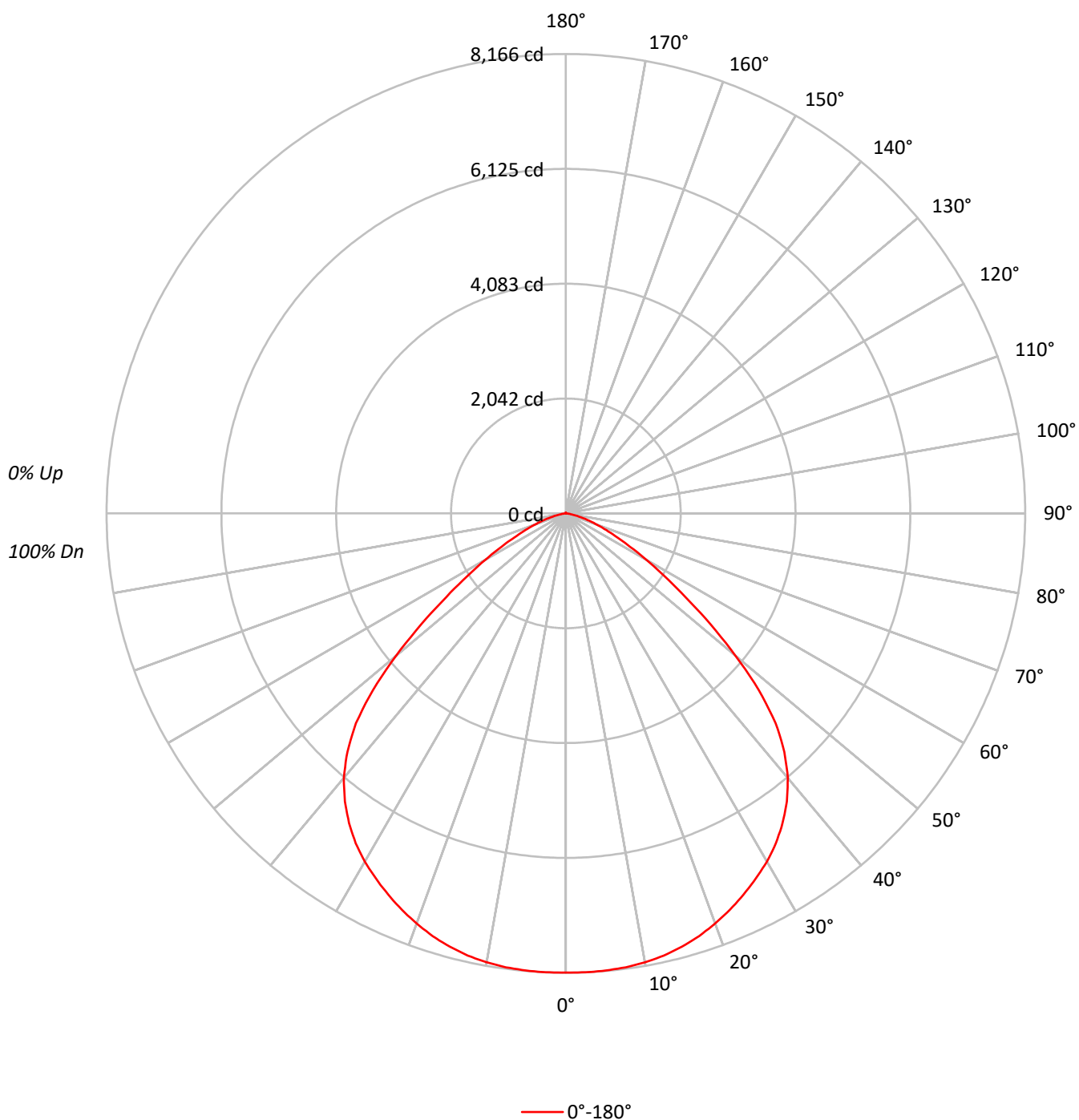
Lumens per Lamp: N/A
Luminaire Lumens: 18452.2 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 122.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 6.9
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P978880

CATALOG NUMBER: UHBS2-1218-W-L83065-HIGH-6500K

Luminous Intensity Polar Plot



TEST NUMBER: P978880

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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°	111874
5°	110987
10°	110314
15°	109420
20°	108142
25°	106712
30°	105380
35°	103212
40°	99241
45°	90708
50°	72970
55°	52426
60°	37080
65°	25675
70°	17366
75°	10553
80°	4638
85°	1531

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 90708 cd/sqm

TEST NUMBER: P978880

CATALOG NUMBER: UHBS2-1218-W-L83065-HIGH-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	777.0	4.2
10°-20°	2251.2	12.2
20°-30°	3448.4	18.7
30°-40°	4191.7	22.7
40°-50°	3989.2	21.6
50°-60°	2381.4	12.9
60°-70°	1033.7	5.6
70°-80°	328.7	1.8
80°-90°	36.7	0.2
90°-100°	1.4	0.0
100°-110°	1.1	0.0
110°-120°	1.1	0.0
120°-130°	1.7	0.0
130°-140°	1.9	0.0
140°-150°	2.3	0.0
150°-160°	2.3	0.0
160°-170°	1.8	0.0
170°-180°	0.7	0.0
0°-30°	6476.6	35.1
0°-40°	10668.4	57.8
0°-60°	17038.9	92.3
0°-90°	18438.0	99.9
90°-120°	3.5	0.0
90°-150°	9.5	0.1
90°-180°	14.0	0.1
0°-180°	18452.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8163	
5°	8157	777
15°	7975	2251
25°	7476	3448
35°	6719	4192
45°	5276	3989
55°	2593	2381
65°	1008	1034
75°	294	329
85°	24	35
90°	3	2
95°	1	1
105°	1	1
115°	1	1
125°	2	2
135°	3	2
145°	4	2
155°	5	2
165°	7	2
175°	8	1
180°	9	

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CATALOG NUMBER: UHBS2-1218-W-L83065-HIGH-6500K

CANDELA DISTRIBUTION (FULL):

0°	
0°	8163.0
2.5°	8165.9
5°	8157.3
7.5°	8139.2
10°	8104.8
12.5°	8051.4
15°	7975.0
17.5°	7878.6
20°	7758.4
22.5°	7625.7
25°	7475.8
27.5°	7317.4
30°	7148.5
32.5°	6951.9
35°	6719.0
37.5°	6453.7
40°	6139.7
42.5°	5750.3
45°	5275.9
47.5°	4656.5
50°	3941.7
52.5°	3237.3
55°	2593.1
57.5°	2078.7
60°	1651.1
62.5°	1290.4
65°	1007.9
67.5°	775.9
70°	585.0
72.5°	426.6
75°	294.0
77.5°	186.1
80°	101.2
82.5°	48.7
85°	23.9
87.5°	10.5
90°	2.9
92.5°	1.0
95°	1.0
97.5°	1.0
100°	1.0
102.5°	1.0
105°	1.0
107.5°	1.0
110°	1.0



TEST NUMBER: P978880

CATALOG NUMBER: UHBS2-1218-W-L83065-HIGH-6500K

CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.0
115°	1.0
117.5°	1.0
120°	1.9
122.5°	1.9
125°	1.9
127.5°	1.9
130°	1.9
132.5°	1.9
135°	2.9
137.5°	2.9
140°	2.9
142.5°	3.8
145°	3.8
147.5°	3.8
150°	3.8
152.5°	4.8
155°	4.8
157.5°	5.7
160°	5.7
162.5°	5.7
165°	6.7
167.5°	6.7
170°	6.7
172.5°	6.7
175°	7.6
177.5°	7.6
180°	8.6

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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	24.02	25.47	24.39	25.78	26.10	24.02	25.47	24.39	25.78	26.10
	3H	24.53	25.81	24.91	26.14	26.51	24.53	25.81	24.91	26.14	26.51
	4H	24.61	25.80	25.01	26.15	26.54	24.61	25.80	25.01	26.15	26.54
	6H	24.59	25.69	25.00	26.06	26.45	24.59	25.69	25.00	26.06	26.45
	8H	24.56	25.60	24.99	25.99	26.39	24.56	25.60	24.99	25.99	26.39
	12H	24.52	25.52	24.95	25.90	26.33	24.52	25.52	24.95	25.90	26.33
4H	2H	24.19	25.38	24.59	25.74	26.12	24.19	25.38	24.59	25.74	26.12
	3H	24.81	25.78	25.22	26.18	26.59	24.81	25.78	25.22	26.18	26.59
	4H	24.91	25.78	25.35	26.20	26.64	24.91	25.78	25.35	26.20	26.64
	6H	24.91	25.66	25.37	26.11	26.57	24.91	25.66	25.37	26.11	26.57
	8H	24.87	25.57	25.34	26.02	26.49	24.87	25.57	25.34	26.02	26.49
	12H	24.84	25.46	25.32	25.94	26.41	24.84	25.46	25.32	25.94	26.41
8H	4H	24.88	25.57	25.34	26.02	26.49	24.88	25.57	25.34	26.02	26.49
	6H	24.87	25.44	25.37	25.94	26.42	24.87	25.44	25.37	25.94	26.42
	8H	24.82	25.34	25.34	25.86	26.35	24.82	25.34	25.34	25.86	26.35
	12H	24.79	25.25	25.30	25.74	26.31	24.79	25.25	25.30	25.74	26.31
12H	4H	24.84	25.46	25.32	25.94	26.42	24.84	25.46	25.32	25.94	26.42
	6H	24.82	25.33	25.33	25.85	26.34	24.82	25.33	25.33	25.85	26.34
	8H	24.79	25.25	25.30	25.74	26.31	24.79	25.25	25.30	25.74	26.31