

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: P978887

Luminaire Tested: UHBS2-1218-W-L83065-MID-3500K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978887
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-3500K
Description: UHBS2 LED High Bay at 3500K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

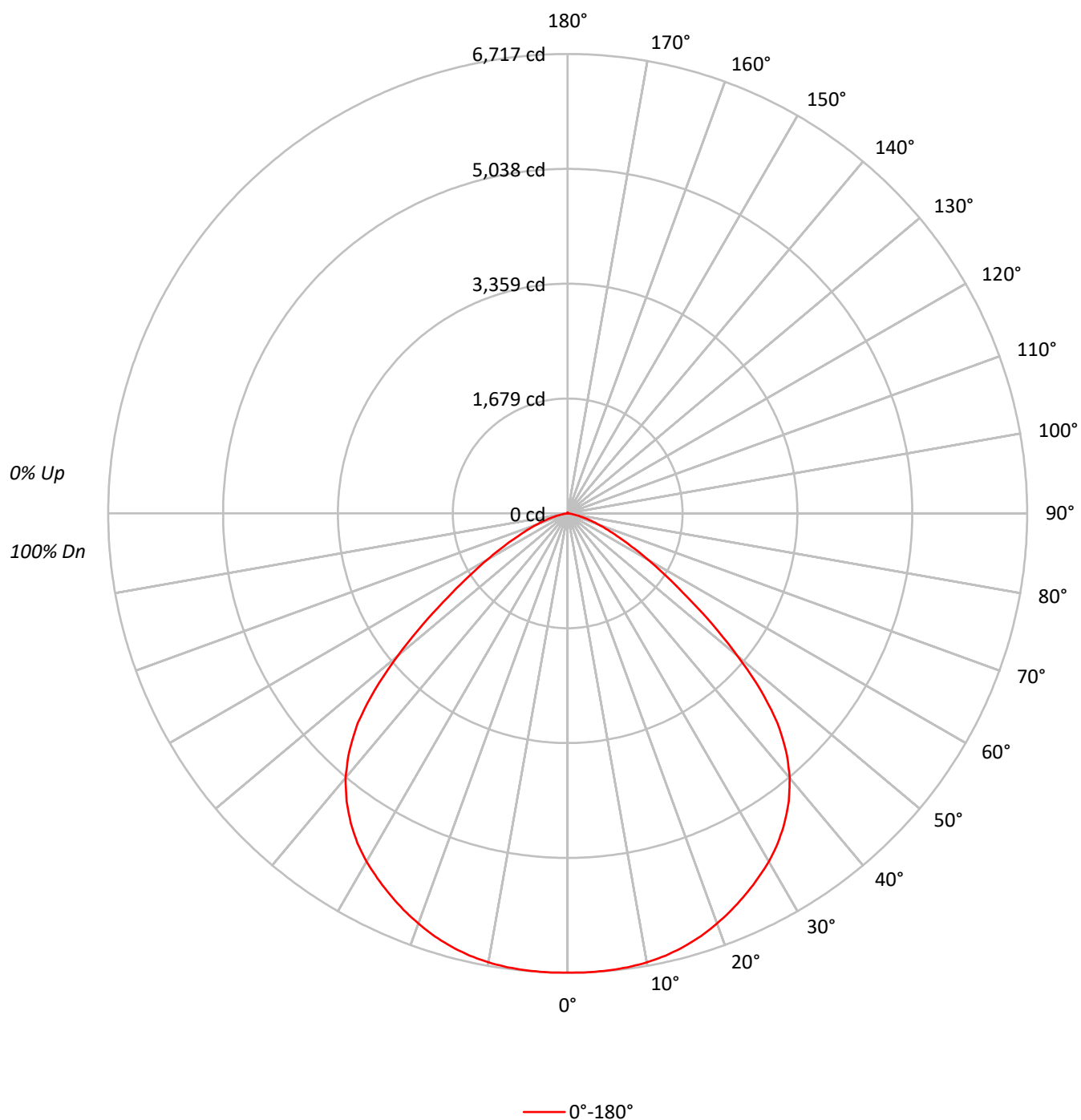
Lumens per Lamp: N/A
Luminaire Lumens: 15179.1 lumens
Efficiency: N/A
Efficacy: 155.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 97.6
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

TEST NUMBER: P978887

CATALOG NUMBER: UHBS2-1218-W-L83065-MID-3500K

Luminous Intensity Polar Plot



TEST NUMBER: P978887

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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°	92031
5°	91301
10°	90747
15°	90011
20°	88959
25°	87784
30°	86688
35°	84905
40°	81637
45°	74618
50°	60026
55°	43128
60°	30502
65°	21120
70°	14288
75°	8680
80°	3813
85°	1255

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 74618 cd/sqm

TEST NUMBER: P978887

CATALOG NUMBER: UHBS2-1218-W-L83065-MID-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	639.2	4.2
10°-20°	1851.8	12.2
20°-30°	2836.8	18.7
30°-40°	3448.2	22.7
40°-50°	3281.6	21.6
50°-60°	1959.0	12.9
60°-70°	850.3	5.6
70°-80°	270.4	1.8
80°-90°	30.2	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°	5327.8	35.1
0°-40°	8776.0	57.8
0°-60°	14016.6	92.3
0°-90°	15167.4	99.9
90°-120°	2.8	0.0
90°-150°	7.8	0.1
90°-180°	12.0	0.1
0°-180°	15179.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6715	
5°	6710	639
15°	6560	1852
25°	6150	2837
35°	5527	3448
45°	4340	3282
55°	2133	1959
65°	829	850
75°	242	270
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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CATALOG NUMBER: UHBS2-1218-W-L83065-MID-3500K

CANDELA DISTRIBUTION (FULL):

0°	
0°	6715.1
2.5°	6717.4
5°	6710.4
7.5°	6695.4
10°	6667.2
12.5°	6623.2
15°	6560.4
17.5°	6481.1
20°	6382.2
22.5°	6273.1
25°	6149.8
27.5°	6019.5
30°	5880.5
32.5°	5718.8
35°	5527.2
37.5°	5308.9
40°	5050.6
42.5°	4730.3
45°	4340.1
47.5°	3830.6
50°	3242.5
52.5°	2663.1
55°	2133.2
57.5°	1710.0
60°	1358.2
62.5°	1061.5
65°	829.1
67.5°	638.3
70°	481.3
72.5°	350.9
75°	241.8
77.5°	153.1
80°	83.2
82.5°	40.0
85°	19.6
87.5°	8.6
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



TEST NUMBER: P978887

CATALOG NUMBER: UHBS2-1218-W-L83065-MID-3500K

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°	3.1
145°	3.1
147.5°	3.1
150°	3.1
152.5°	3.9
155°	3.9
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	23.35	24.79	23.71	25.11	25.42	23.35	24.79	23.71	25.11	25.42
	3H	23.85	25.14	24.23	25.47	25.83	23.85	25.14	24.23	25.47	25.83
	4H	23.93	25.12	24.33	25.47	25.86	23.93	25.12	24.33	25.47	25.86
	6H	23.91	25.01	24.32	25.38	25.77	23.91	25.01	24.32	25.38	25.77
	8H	23.88	24.92	24.31	25.31	25.72	23.88	24.92	24.31	25.31	25.72
	12H	23.84	24.84	24.28	25.22	25.65	23.84	24.84	24.28	25.22	25.65
4H	2H	23.51	24.71	23.91	25.06	25.44	23.51	24.71	23.91	25.06	25.44
	3H	24.13	25.10	24.54	25.50	25.91	24.13	25.10	24.54	25.50	25.91
	4H	24.23	25.10	24.67	25.52	25.96	24.23	25.10	24.67	25.52	25.96
	6H	24.23	24.98	24.70	25.43	25.90	24.23	24.98	24.70	25.43	25.90
	8H	24.19	24.89	24.66	25.34	25.81	24.19	24.89	24.66	25.34	25.81
	12H	24.16	24.78	24.64	25.26	25.74	24.16	24.78	24.64	25.26	25.74
8H	4H	24.20	24.90	24.66	25.34	25.81	24.20	24.90	24.66	25.34	25.81
	6H	24.19	24.76	24.69	25.26	25.74	24.19	24.76	24.69	25.26	25.74
	8H	24.15	24.66	24.67	25.18	25.67	24.15	24.66	24.67	25.18	25.67
	12H	24.11	24.57	24.62	25.07	25.64	24.11	24.57	24.62	25.07	25.64
12H	4H	24.16	24.78	24.65	25.26	25.74	24.16	24.78	24.65	25.26	25.74
	6H	24.14	24.66	24.66	25.17	25.66	24.14	24.66	24.66	25.17	25.66
	8H	24.11	24.57	24.63	25.07	25.64	24.11	24.57	24.63	25.07	25.64

END OF REPORT