

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: P978885

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

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978885
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-LOW-6500K
Description: UHBS2 LED High Bay at 6500K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

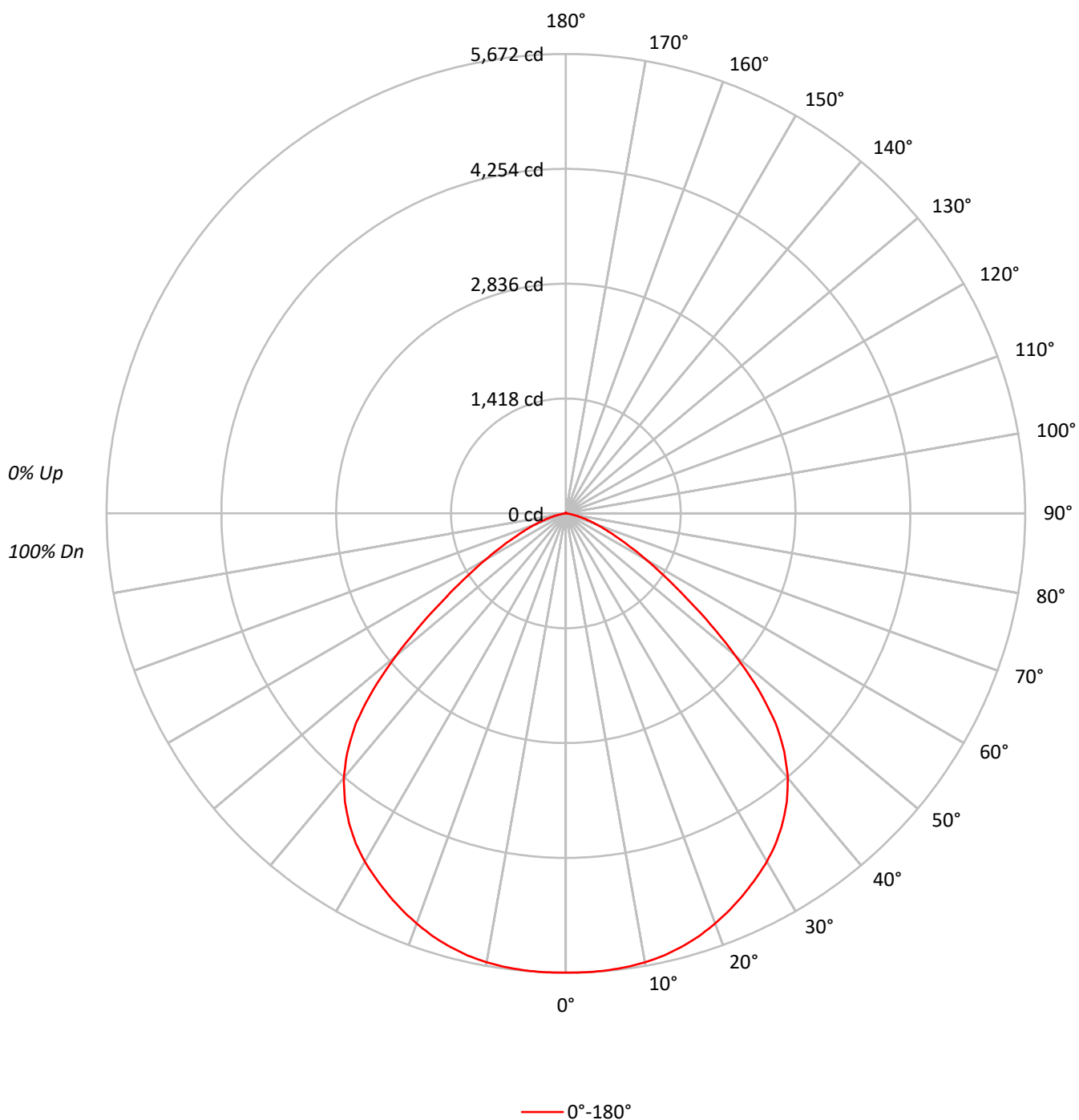
Lumens per Lamp: N/A
Luminaire Lumens: 12816.1 lumens
Efficiency: N/A
Efficacy: 159.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 80.4
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 7.2
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P978885

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

Luminous Intensity Polar Plot



TEST NUMBER: P978885

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

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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101		108	105	102	99		101	98	96		97	95	93		94	92	90
2	103	96	90	86		100	94	89	85		91	86	83		88	84	81		85	82	79
3	95	86	79	73		93	84	78	73		82	76	72		79	74	70		76	73	69
4	88	77	70	64		86	76	69	63		74	67	63		71	66	62		69	65	61
5	81	70	62	56		79	69	61	56		67	60	55		65	59	54		63	58	54
6	75	63	55	49		74	62	55	49		61	54	49		59	53	48		58	52	48
7	70	58	50	44		68	57	49	44		56	49	44		54	48	43		53	47	43
8	65	53	45	40		64	52	45	40		51	44	39		50	44	39		49	43	39
9	61	49	41	36		60	48	41	36		47	40	36		46	40	35		45	39	35
10	57	45	38	33		56	45	37	33		44	37	32		43	37	32		42	36	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	77703
5°	77087
10°	76620
15°	75999
20°	75110
25°	74118
30°	73192
35°	71686
40°	68929
45°	63003
50°	50681
55°	36414
60°	25754
65°	17831
70°	12064
75°	7330
80°	3222
85°	1063

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 63003 cd/sqm

TEST NUMBER: P978885

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.7	4.2
10°-20°	1563.6	12.2
20°-30°	2395.1	18.7
30°-40°	2911.4	22.7
40°-50°	2770.7	21.6
50°-60°	1654.0	12.9
60°-70°	717.9	5.6
70°-80°	228.3	1.8
80°-90°	25.5	0.2
90°-100°	0.9	0.0
100°-110°	0.7	0.0
110°-120°	0.8	0.0
120°-130°	1.2	0.0
130°-140°	1.3	0.0
140°-150°	1.6	0.0
150°-160°	1.6	0.0
160°-170°	1.2	0.0
170°-180°	0.5	0.0
0°-30°	4498.4	35.1
0°-40°	7409.8	57.8
0°-60°	11834.5	92.3
0°-90°	12806.3	99.9
90°-120°	2.4	0.0
90°-150°	6.6	0.1
90°-180°	10.0	0.1
0°-180°	12816.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5670	
5°	5666	540
15°	5539	1564
25°	5192	2395
35°	4667	2911
45°	3664	2771
55°	1801	1654
65°	700	718
75°	204	228
85°	17	24
90°	2	2
95°	1	1
105°	1	1
115°	1	1
125°	1	1
135°	2	1
145°	3	2
155°	3	2
165°	5	1
175°	5	0
180°	6	

TEST NUMBER: P978885

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

CANDELA DISTRIBUTION (FULL):

0°	
0°	5669.7
2.5°	5671.7
5°	5665.7
7.5°	5653.1
10°	5629.3
12.5°	5592.1
15°	5539.1
17.5°	5472.2
20°	5388.6
22.5°	5296.5
25°	5192.4
27.5°	5082.4
30°	4965.0
32.5°	4828.5
35°	4666.7
37.5°	4482.5
40°	4264.4
42.5°	3993.9
45°	3664.5
47.5°	3234.2
50°	2737.7
52.5°	2248.5
55°	1801.1
57.5°	1443.8
60°	1146.8
62.5°	896.2
65°	700.0
67.5°	538.9
70°	406.4
72.5°	296.3
75°	204.2
77.5°	129.3
80°	70.3
82.5°	33.8
85°	16.6
87.5°	7.3
90°	2.0
92.5°	0.7
95°	0.7
97.5°	0.7
100°	0.7
102.5°	0.7
105°	0.7
107.5°	0.7
110°	0.7



TEST NUMBER: P978885

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

CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.7
115°	0.7
117.5°	0.7
120°	1.3
122.5°	1.3
125°	1.3
127.5°	1.3
130°	1.3
132.5°	1.3
135°	2.0
137.5°	2.0
140°	2.0
142.5°	2.7
145°	2.7
147.5°	2.7
150°	2.7
152.5°	3.3
155°	3.3
157.5°	4.0
160°	4.0
162.5°	4.0
165°	4.6
167.5°	4.6
170°	4.6
172.5°	4.6
175°	5.3
177.5°	5.3
180°	6.0

TEST NUMBER: P978885

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

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	22.76	24.20	23.12	24.52	24.84	22.76	24.20	23.12	24.52	24.84
	3H	23.27	24.55	23.65	24.88	25.24	23.27	24.55	23.65	24.88	25.24
	4H	23.34	24.54	23.74	24.89	25.27	23.34	24.54	23.74	24.89	25.27
	6H	23.32	24.42	23.74	24.79	25.18	23.32	24.42	23.74	24.79	25.18
	8H	23.29	24.33	23.72	24.72	25.13	23.29	24.33	23.72	24.72	25.13
	12H	23.26	24.25	23.69	24.64	25.07	23.26	24.25	23.69	24.64	25.07
4H	2H	22.92	24.12	23.33	24.47	24.85	22.92	24.12	23.33	24.47	24.85
	3H	23.54	24.51	23.95	24.92	25.32	23.54	24.51	23.95	24.92	25.32
	4H	23.64	24.51	24.08	24.93	25.37	23.64	24.51	24.08	24.93	25.37
	6H	23.65	24.40	24.11	24.84	25.31	23.65	24.40	24.11	24.84	25.31
	8H	23.61	24.31	24.07	24.75	25.22	23.61	24.31	24.07	24.75	25.22
	12H	23.57	24.19	24.06	24.67	25.15	23.57	24.19	24.06	24.67	25.15
8H	4H	23.61	24.31	24.08	24.76	25.23	23.61	24.31	24.08	24.76	25.23
	6H	23.60	24.18	24.10	24.67	25.15	23.60	24.18	24.10	24.67	25.15
	8H	23.56	24.08	24.08	24.59	25.08	23.56	24.08	24.08	24.59	25.08
	12H	23.52	23.98	24.04	24.48	25.05	23.52	23.98	24.04	24.48	25.05
12H	4H	23.57	24.19	24.06	24.68	25.15	23.57	24.19	24.06	24.68	25.15
	6H	23.55	24.07	24.07	24.58	25.07	23.55	24.07	24.07	24.58	25.07
	8H	23.52	23.98	24.04	24.48	25.05	23.52	23.98	24.04	24.48	25.05