

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: P978876

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

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978876
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-3000K
Description: UHBS2 LED High Bay at 3000K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

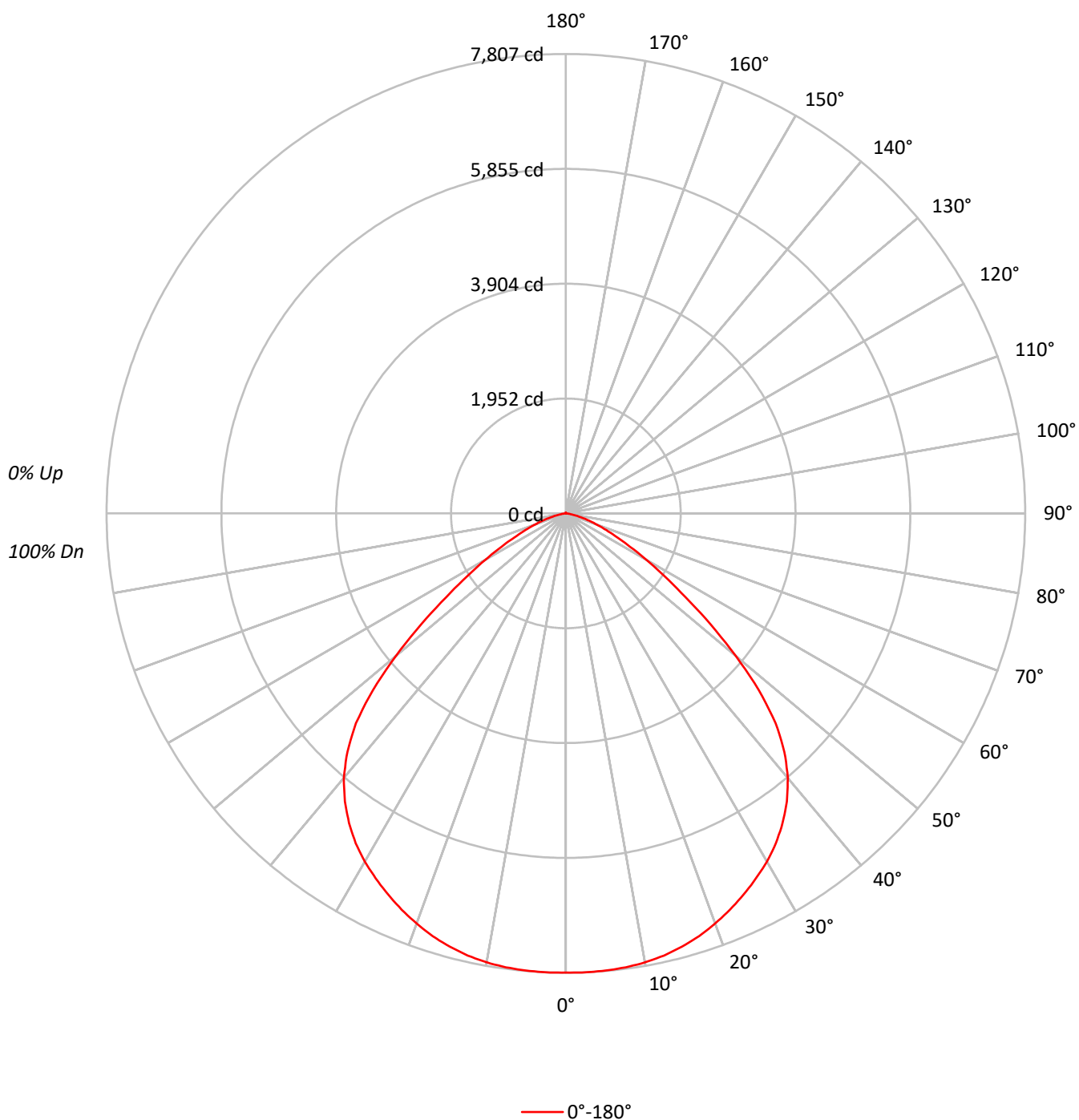
Lumens per Lamp: N/A
Luminaire Lumens: 17641.9 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 122
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

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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°	106964
5°	106115
10°	105471
15°	104617
20°	103394
25°	102029
30°	100754
35°	98682
40°	94885
45°	86726
50°	69767
55°	50126
60°	35451
65°	24546
70°	16606
75°	10090
80°	4432
85°	1460

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 86726 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	742.9	4.2
10°-20°	2152.3	12.2
20°-30°	3297.0	18.7
30°-40°	4007.7	22.7
40°-50°	3814.0	21.6
50°-60°	2276.8	12.9
60°-70°	988.3	5.6
70°-80°	314.2	1.8
80°-90°	35.1	0.2
90°-100°	1.2	0.0
100°-110°	1.0	0.0
110°-120°	1.0	0.0
120°-130°	1.6	0.0
130°-140°	1.8	0.0
140°-150°	2.2	0.0
150°-160°	2.2	0.0
160°-170°	1.7	0.0
170°-180°	0.6	0.0
0°-30°	6192.3	35.1
0°-40°	10200.1	57.8
0°-60°	16290.9	92.3
0°-90°	17628.5	99.9
90°-120°	3.2	0.0
90°-150°	8.9	0.1
90°-180°	13.0	0.1
0°-180°	17641.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7805	
5°	7799	743
15°	7625	2152
25°	7148	3297
35°	6424	4008
45°	5044	3814
55°	2479	2277
65°	964	988
75°	281	314
85°	23	33
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°	6	2
175°	7	1
180°	8	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	7804.7
2.5°	7807.4
5°	7799.2
7.5°	7781.9
10°	7749.0
12.5°	7697.9
15°	7624.9
17.5°	7532.8
20°	7417.8
22.5°	7290.9
25°	7147.7
27.5°	6996.2
30°	6834.7
32.5°	6646.7
35°	6424.1
37.5°	6170.4
40°	5870.2
42.5°	5497.9
45°	5044.3
47.5°	4452.1
50°	3768.7
52.5°	3095.2
55°	2479.3
57.5°	1987.4
60°	1578.6
62.5°	1233.7
65°	963.6
67.5°	741.9
70°	559.4
72.5°	407.9
75°	281.1
77.5°	177.9
80°	96.7
82.5°	46.5
85°	22.8
87.5°	10.0
90°	2.7
92.5°	0.9
95°	0.9
97.5°	0.9
100°	0.9
102.5°	0.9
105°	0.9
107.5°	0.9
110°	0.9



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.9
115°	0.9
117.5°	0.9
120°	1.8
122.5°	1.8
125°	1.8
127.5°	1.8
130°	1.8
132.5°	1.8
135°	2.7
137.5°	2.7
140°	2.7
142.5°	3.7
145°	3.7
147.5°	3.7
150°	3.7
152.5°	4.6
155°	4.6
157.5°	5.5
160°	5.5
162.5°	5.5
165°	6.4
167.5°	6.4
170°	6.4
172.5°	6.4
175°	7.3
177.5°	7.3
180°	8.2

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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	23.87	25.31	24.23	25.63	25.95	23.87	25.31	24.23	25.63	25.95
	3H	24.38	25.66	24.76	25.99	26.35	24.38	25.66	24.76	25.99	26.35
	4H	24.45	25.65	24.85	26.00	26.38	24.45	25.65	24.85	26.00	26.38
	6H	24.43	25.53	24.85	25.90	26.29	24.43	25.53	24.85	25.90	26.29
	8H	24.40	25.44	24.83	25.83	26.24	24.40	25.44	24.83	25.83	26.24
	12H	24.37	25.36	24.80	25.75	26.18	24.37	25.36	24.80	25.75	26.18
4H	2H	24.03	25.23	24.44	25.58	25.96	24.03	25.23	24.44	25.58	25.96
	3H	24.65	25.62	25.06	26.03	26.43	24.65	25.62	25.06	26.03	26.43
	4H	24.75	25.62	25.19	26.04	26.48	24.75	25.62	25.19	26.04	26.48
	6H	24.76	25.51	25.22	25.95	26.42	24.76	25.51	25.22	25.95	26.42
	8H	24.72	25.42	25.18	25.86	26.33	24.72	25.42	25.18	25.86	26.33
	12H	24.68	25.30	25.17	25.78	26.26	24.68	25.30	25.17	25.78	26.26
8H	4H	24.72	25.42	25.19	25.87	26.34	24.72	25.42	25.19	25.87	26.34
	6H	24.71	25.29	25.21	25.78	26.26	24.71	25.29	25.21	25.78	26.26
	8H	24.67	25.19	25.19	25.70	26.19	24.67	25.19	25.19	25.70	26.19
	12H	24.63	25.09	25.15	25.59	26.16	24.63	25.09	25.15	25.59	26.16
12H	4H	24.68	25.30	25.17	25.79	26.26	24.68	25.30	25.17	25.79	26.26
	6H	24.66	25.18	25.18	25.69	26.18	24.66	25.18	25.18	25.69	26.18
	8H	24.63	25.09	25.15	25.59	26.16	24.63	25.09	25.15	25.59	26.16

END OF REPORT