

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: P978854

Luminaire Tested: UHBS2-1218-M-L83065-LOW-5000K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2405-087-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/27/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-M-L83065-LOW-5000K
Description: UHBS2 LED High Bay at 5000K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

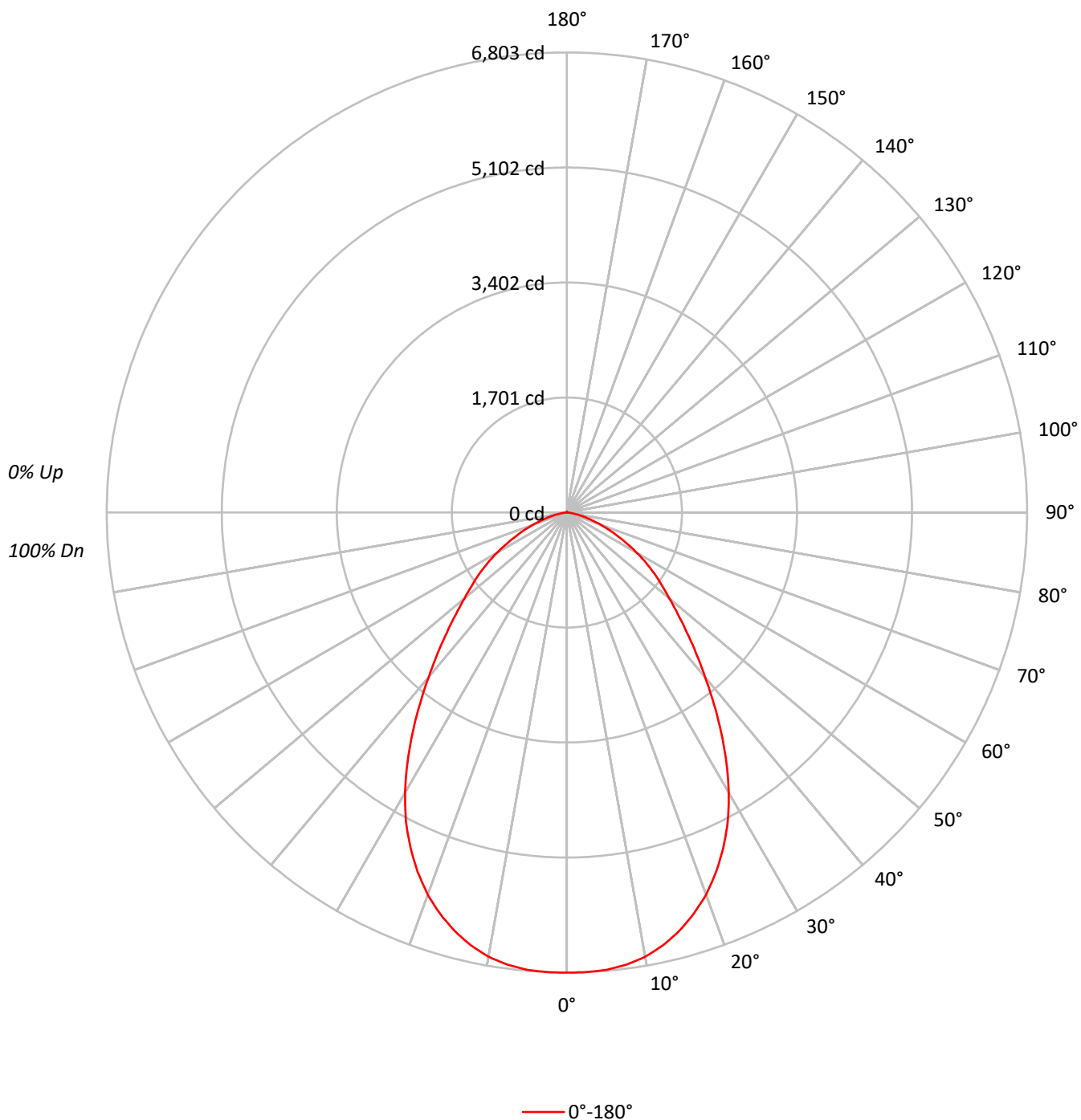
Lumens per Lamp: N/A
Luminaire Lumens: 12015.9 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 79
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

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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		93
2	103	96	90	86	100	94	89	85	91	86	83		88	84	81		85
3	95	86	79	74	93	85	78	73	82	77	72		79	75	71		77
4	88	78	70	65	86	77	70	64	74	68	63		72	67	63		70
5	82	71	63	57	80	70	62	57	68	61	56		66	60	56		64
6	76	65	57	51	75	64	56	51	62	56	51		61	55	50		59
7	71	59	52	46	70	59	51	46	57	51	46		56	50	45		55
8	67	55	47	42	66	54	47	42	53	46	42		52	46	41		51
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	93240
5°	92335
10°	90809
15°	87919
20°	83833
25°	78076
30°	70553
35°	61112
40°	51370
45°	43095
50°	36580
55°	31899
60°	26891
65°	21219
70°	16004
75°	10586
80°	5811
85°	2286

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 43095 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.2	5.4
10°-20°	1799.9	15.0
20°-30°	2503.8	20.8
30°-40°	2480.2	20.6
40°-50°	1949.7	16.2
50°-60°	1411.3	11.7
60°-70°	838.2	7.0
70°-80°	325.9	2.7
80°-90°	51.3	0.4
90°-100°	1.5	0.0
100°-110°	1.0	0.0
110°-120°	0.9	0.0
120°-130°	0.9	0.0
130°-140°	1.5	0.0
140°-150°	1.7	0.0
150°-160°	1.8	0.0
160°-170°	1.5	0.0
170°-180°	0.6	0.0
0°-30°	4947.9	41.2
0°-40°	7428.0	61.8
0°-60°	10789.1	89.8
0°-90°	12004.6	99.9
90°-120°	3.3	0.0
90°-150°	7.4	0.1
90°-180°	11.0	0.1
0°-180°	12015.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6803	
5°	6786	644
15°	6408	1800
25°	5470	2504
35°	3978	2480
45°	2507	1950
55°	1578	1411
65°	833	838
75°	295	326
85°	36	49
90°	5	3
95°	1	1
105°	1	1
115°	1	1
125°	1	1
135°	2	1
145°	3	2
155°	4	2
165°	6	1
175°	7	1
180°	7	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	6803.3
2.5°	6803.3
5°	6786.4
7.5°	6744.1
10°	6671.8
12.5°	6555.3
15°	6407.9
17.5°	6226.6
20°	6014.4
22.5°	5758.9
25°	5469.7
27.5°	5151.3
30°	4786.0
32.5°	4390.6
35°	3978.3
37.5°	3567.9
40°	3178.1
42.5°	2828.7
45°	2506.6
47.5°	2223.9
50°	1976.0
52.5°	1769.4
55°	1577.8
57.5°	1388.1
60°	1197.4
62.5°	1008.7
65°	833.0
67.5°	684.6
70°	539.1
72.5°	408.5
75°	294.9
77.5°	201.9
80°	126.8
82.5°	72.3
85°	35.7
87.5°	15.0
90°	4.7
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°	0.9
122.5°	0.9
125°	0.9
127.5°	0.9
130°	1.9
132.5°	1.9
135°	1.9
137.5°	1.9
140°	1.9
142.5°	2.8
145°	2.8
147.5°	2.8
150°	2.8
152.5°	3.8
155°	3.8
157.5°	4.7
160°	4.7
162.5°	4.7
165°	5.6
167.5°	5.6
170°	5.6
172.5°	5.6
175°	6.6
177.5°	6.6
180°	6.6

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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	22.79	24.20	23.16	24.51	24.83	22.79	24.20	23.16	24.51	24.83
	3H	23.71	24.97	24.09	25.30	25.66	23.71	24.97	24.09	25.30	25.66
	4H	23.90	25.08	24.31	25.43	25.81	23.90	25.08	24.31	25.43	25.81
	6H	23.95	25.03	24.37	25.40	25.80	23.95	25.03	24.37	25.40	25.80
	8H	23.94	24.96	24.37	25.35	25.76	23.94	24.96	24.37	25.35	25.76
	12H	23.91	24.89	24.34	25.27	25.70	23.91	24.89	24.34	25.27	25.70
4H	2H	23.10	24.28	23.51	24.63	25.01	23.10	24.28	23.51	24.63	25.01
	3H	24.16	25.13	24.57	25.53	25.93	24.16	25.13	24.57	25.53	25.93
	4H	24.41	25.27	24.84	25.69	26.13	24.41	25.27	24.84	25.69	26.13
	6H	24.50	25.24	24.96	25.69	26.16	24.50	25.24	24.96	25.69	26.16
	8H	24.48	25.18	24.95	25.62	26.10	24.48	25.18	24.95	25.62	26.10
	12H	24.46	25.07	24.94	25.56	26.03	24.46	25.07	24.94	25.56	26.03
8H	4H	24.43	25.13	24.90	25.58	26.05	24.43	25.13	24.90	25.58	26.05
	6H	24.54	25.11	25.04	25.61	26.09	24.54	25.11	25.04	25.61	26.09
	8H	24.53	25.04	25.05	25.56	26.05	24.53	25.04	25.05	25.56	26.05
	12H	24.52	24.97	25.03	25.46	26.03	24.52	24.97	25.03	25.46	26.03
12H	4H	24.41	25.02	24.89	25.50	25.98	24.41	25.02	24.89	25.50	25.98
	6H	24.50	25.01	25.02	25.53	26.02	24.50	25.01	25.02	25.53	26.02
	8H	24.52	24.97	25.03	25.46	26.03	24.52	24.97	25.03	25.46	26.03