

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: P978848

Luminaire Tested: UHBS2-1218-M-L83065-HIGH-4000K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978848
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-HIGH-4000K
Description: UHBS2 LED High Bay at 4000K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

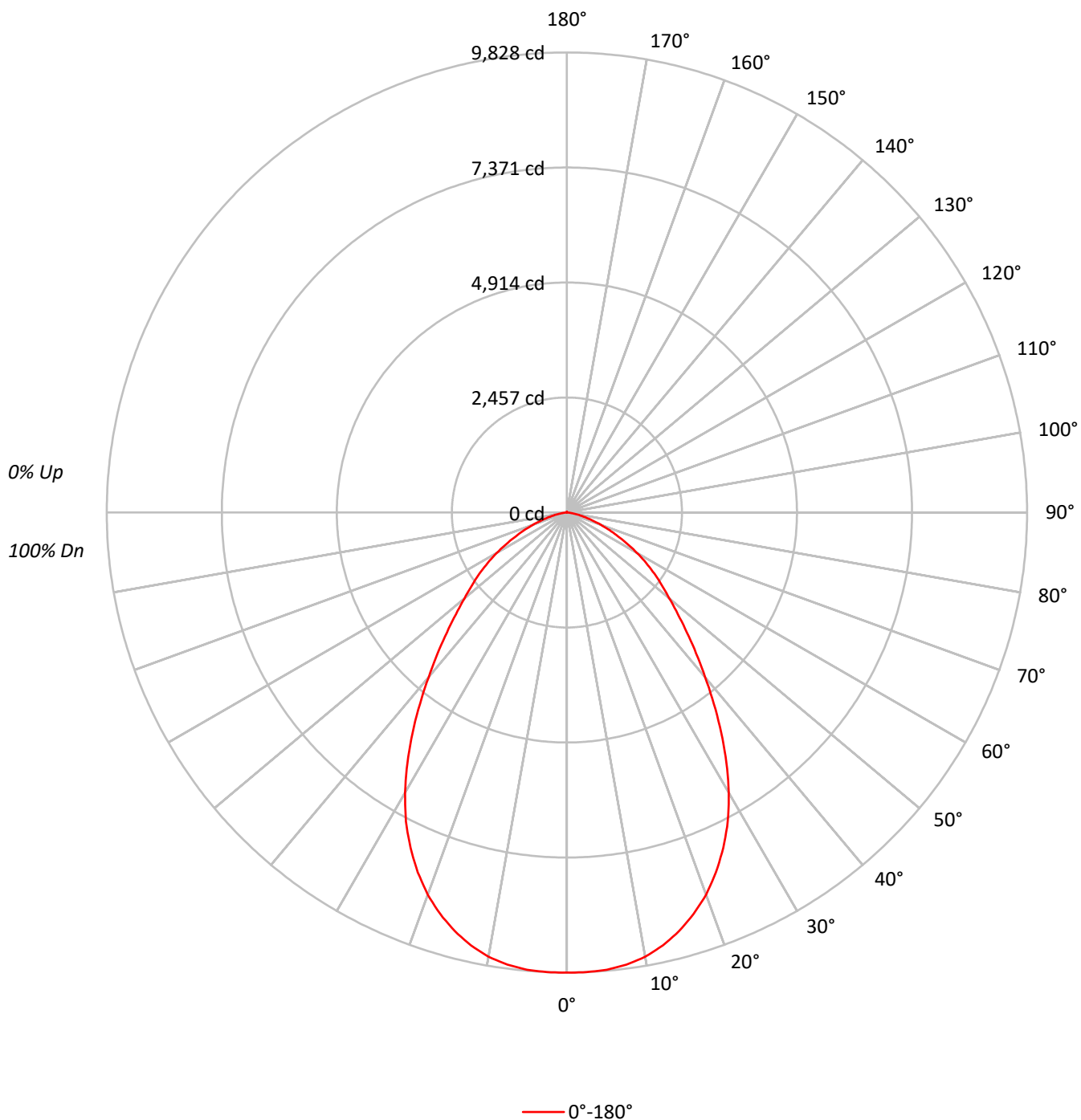
Lumens per Lamp: N/A
Luminaire Lumens: 17359.2 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 119.1
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

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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°	134699
5°	133392
10°	131187
15°	127013
20°	121109
25°	112793
30°	101925
35°	88284
40°	74213
45°	62259
50°	52845
55°	46084
60°	38849
65°	30655
70°	23120
75°	15291
80°	8396
85°	3305

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 62259 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	930.6	5.4
10°-20°	2600.3	15.0
20°-30°	3617.1	20.8
30°-40°	3583.0	20.6
40°-50°	2816.7	16.2
50°-60°	2038.9	11.7
60°-70°	1211.0	7.0
70°-80°	470.8	2.7
80°-90°	74.2	0.4
90°-100°	2.3	0.0
100°-110°	1.5	0.0
110°-120°	1.4	0.0
120°-130°	1.4	0.0
130°-140°	2.1	0.0
140°-150°	2.5	0.0
150°-160°	2.6	0.0
160°-170°	2.1	0.0
170°-180°	0.8	0.0
0°-30°	7147.9	41.2
0°-40°	10730.9	61.8
0°-60°	15586.6	89.8
0°-90°	17342.5	99.9
90°-120°	5.1	0.0
90°-150°	11.1	0.1
90°-180°	17.0	0.1
0°-180°	17359.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9828	
5°	9804	931
15°	9257	2600
25°	7902	3617
35°	5747	3583
45°	3621	2817
55°	2279	2039
65°	1203	1211
75°	426	471
85°	52	70
90°	7	5
95°	1	1
105°	1	1
115°	1	1
125°	1	1
135°	3	2
145°	4	2
155°	5	3
165°	8	2
175°	10	1
180°	10	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	9828.4
2.5°	9828.4
5°	9804.0
7.5°	9742.9
10°	9638.4
12.5°	9470.2
15°	9257.2
17.5°	8995.3
20°	8688.7
22.5°	8319.7
25°	7901.8
27.5°	7441.8
30°	6914.1
32.5°	6342.9
35°	5747.2
37.5°	5154.3
40°	4591.3
42.5°	4086.6
45°	3621.2
47.5°	3212.8
50°	2854.6
52.5°	2556.1
55°	2279.4
57.5°	2005.3
60°	1729.9
62.5°	1457.2
65°	1203.4
67.5°	989.1
70°	778.8
72.5°	590.2
75°	426.0
77.5°	291.7
80°	183.2
82.5°	104.5
85°	51.6
87.5°	21.7
90°	6.8
92.5°	1.4
95°	1.4
97.5°	1.4
100°	1.4
102.5°	1.4
105°	1.4
107.5°	1.4
110°	1.4



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.4
115°	1.4
117.5°	1.4
120°	1.4
122.5°	1.4
125°	1.4
127.5°	1.4
130°	2.7
132.5°	2.7
135°	2.7
137.5°	2.7
140°	2.7
142.5°	4.1
145°	4.1
147.5°	4.1
150°	4.1
152.5°	5.4
155°	5.4
157.5°	6.8
160°	6.8
162.5°	6.8
165°	8.1
167.5°	8.1
170°	8.1
172.5°	8.1
175°	9.5
177.5°	9.5
180°	9.5

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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	24.07	25.48	24.43	25.79	26.11	24.07	25.48	24.43	25.79	26.11
	3H	24.99	26.24	25.37	26.58	26.94	24.99	26.24	25.37	26.58	26.94
	4H	25.18	26.36	25.59	26.71	27.09	25.18	26.36	25.59	26.71	27.09
	6H	25.23	26.31	25.65	26.68	27.08	25.23	26.31	25.65	26.68	27.08
	8H	25.21	26.24	25.65	26.63	27.04	25.21	26.24	25.65	26.63	27.04
	12H	25.19	26.17	25.62	26.55	26.98	25.19	26.17	25.62	26.55	26.98
4H	2H	24.38	25.55	24.78	25.90	26.29	24.38	25.55	24.78	25.90	26.29
	3H	25.44	26.40	25.85	26.81	27.21	25.44	26.40	25.85	26.81	27.21
	4H	25.68	26.55	26.12	26.97	27.41	25.68	26.55	26.12	26.97	27.41
	6H	25.78	26.52	26.24	26.97	27.43	25.78	26.52	26.24	26.97	27.43
	8H	25.76	26.45	26.23	26.90	27.37	25.76	26.45	26.23	26.90	27.37
	12H	25.74	26.35	26.22	26.83	27.31	25.74	26.35	26.22	26.83	27.31
8H	4H	25.71	26.41	26.18	26.86	27.33	25.71	26.41	26.18	26.86	27.33
	6H	25.82	26.39	26.32	26.88	27.37	25.82	26.39	26.32	26.88	27.37
	8H	25.81	26.32	26.33	26.83	27.33	25.81	26.32	26.33	26.83	27.33
	12H	25.80	26.24	26.31	26.74	27.31	25.80	26.24	26.31	26.74	27.31
12H	4H	25.68	26.30	26.17	26.78	27.26	25.68	26.30	26.17	26.78	27.26
	6H	25.78	26.29	26.30	26.80	27.30	25.78	26.29	26.30	26.80	27.30
	8H	25.79	26.24	26.31	26.74	27.31	25.79	26.24	26.31	26.74	27.31