

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: P980638

Luminaire Tested: UHBS2-1218-W-L83065-LOW-4000K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-W-L83065-LOW-4000K-FRR6
Description: UHBS2 LED High Bay at 4000K and LOW lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

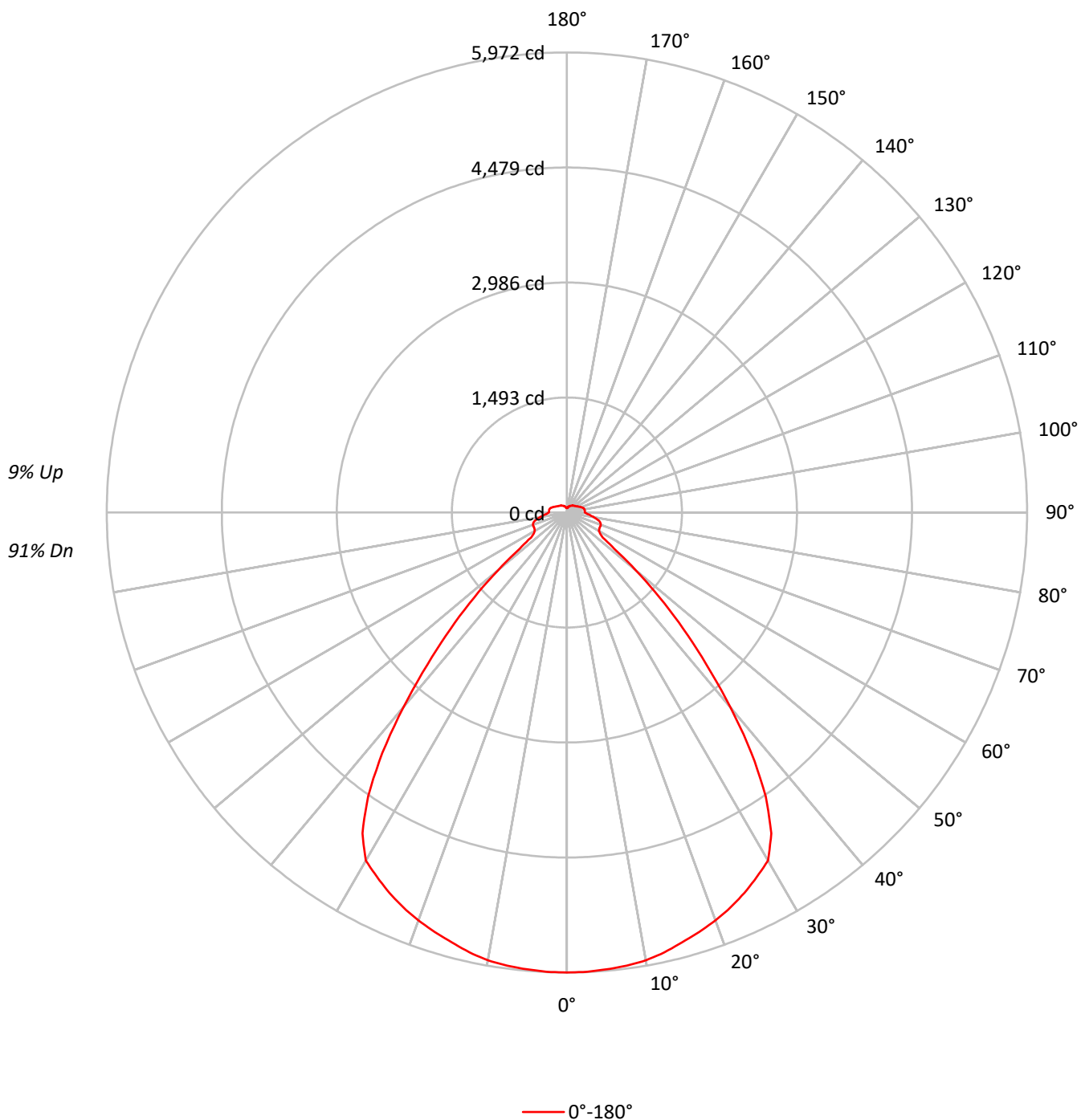
Lumens per Lamp: N/A
Luminaire Lumens: 11968.0 lumens
Efficiency: N/A
Efficacy: 152.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.18
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')
CIE Type: Direct

Input Watts (W): 78.6
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	117	117	117	117	113	113	113	113	106	106	106		100	100	100		94
1	108	104	101	97	105	101	98	95	95	93	90		90	88	86		85
2	100	94	88	83	97	91	86	81	86	82	78		82	78	75		78
3	93	85	78	72	90	82	76	71	78	73	69		75	70	67		71
4	87	77	69	64	84	75	68	63	72	66	61		68	63	60		65
5	81	70	62	57	78	68	61	56	66	59	55		63	58	53		60
6	76	64	57	51	73	63	56	50	60	54	49		58	53	48		56
7	71	59	51	46	69	58	51	46	56	49	45		54	48	44		52
8	66	55	47	42	64	53	46	42	52	45	41		50	44	40		48
9	62	50	43	38	61	50	43	38	48	42	37		46	41	37		45
10	59	47	40	35	57	46	39	35	45	39	34		43	38	34		42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	48351
5°	46399
10°	44685
15°	42812
20°	41207
25°	39640
30°	38037
35°	33114
40°	24753
45°	16421
50°	9313
55°	4732
60°	4219
65°	4378
70°	4729
75°	4825
80°	4411
85°	3920

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 16421 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.8	4.7
10°-20°	1633.3	13.6
20°-30°	2512.3	21.0
30°-40°	2744.9	22.9
40°-50°	1658.3	13.9
50°-60°	595.6	5.0
60°-70°	467.6	3.9
70°-80°	450.9	3.8
80°-90°	310.6	2.6
90°-100°	253.5	2.1
100°-110°	232.0	1.9
110°-120°	176.2	1.5
120°-130°	129.8	1.1
130°-140°	97.0	0.8
140°-150°	68.4	0.6
150°-160°	43.5	0.4
160°-170°	21.7	0.2
170°-180°	5.6	0.0
0°-30°	4712.3	39.4
0°-40°	7457.3	62.3
0°-60°	9711.2	81.1
0°-90°	10940.2	91.4
90°-120°	661.7	5.5
90°-150°	956.9	8.0
90°-180°	1028.0	8.6
0°-180°	11968.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5972	
5°	5953	567
15°	5777	1633
25°	5449	2512
35°	4498	2745
45°	2136	1658
55°	569	596
65°	468	468
75°	436	451
85°	278	244
90°	234	130
95°	232	190
105°	222	232
115°	176	176
125°	144	130
135°	125	97
145°	108	68
155°	94	44
165°	76	22
175°	58	6
180°	57	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5971.5
2.5°	5967.8
5°	5953.0
7.5°	5933.5
10°	5903.8
12.5°	5848.2
15°	5776.8
17.5°	5709.1
20°	5634.0
22.5°	5549.6
25°	5449.4
27.5°	5335.3
30°	5217.6
32.5°	4937.5
35°	4497.9
37.5°	3934.0
40°	3303.4
42.5°	2676.5
45°	2135.8
47.5°	1631.3
50°	1170.4
52.5°	772.5
55°	569.4
57.5°	511.9
60°	481.3
62.5°	472.0
65°	468.3
67.5°	469.3
70°	468.3
72.5°	458.1
75°	435.9
77.5°	399.7
80°	357.1
82.5°	315.3
85°	278.2
87.5°	250.4
90°	233.7
92.5°	231.9
95°	231.9
97.5°	232.8
100°	231.9
102.5°	228.1
105°	221.6
107.5°	211.4
110°	199.4



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	188.3
115°	176.2
117.5°	166.0
120°	157.7
122.5°	150.2
125°	143.7
127.5°	138.2
130°	133.5
132.5°	128.9
135°	125.2
137.5°	120.6
140°	116.9
142.5°	112.2
145°	108.5
147.5°	104.8
150°	101.1
152.5°	97.4
155°	93.7
157.5°	90.0
160°	85.3
162.5°	80.7
165°	76.0
167.5°	70.5
170°	64.9
172.5°	57.5
175°	57.5
177.5°	56.6
180°	56.6

(END OF REPORT)