

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: P980653

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

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980653
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-MID-4000K-FRR6
Description: UHBS2 LED High Bay at 4000K and MID lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

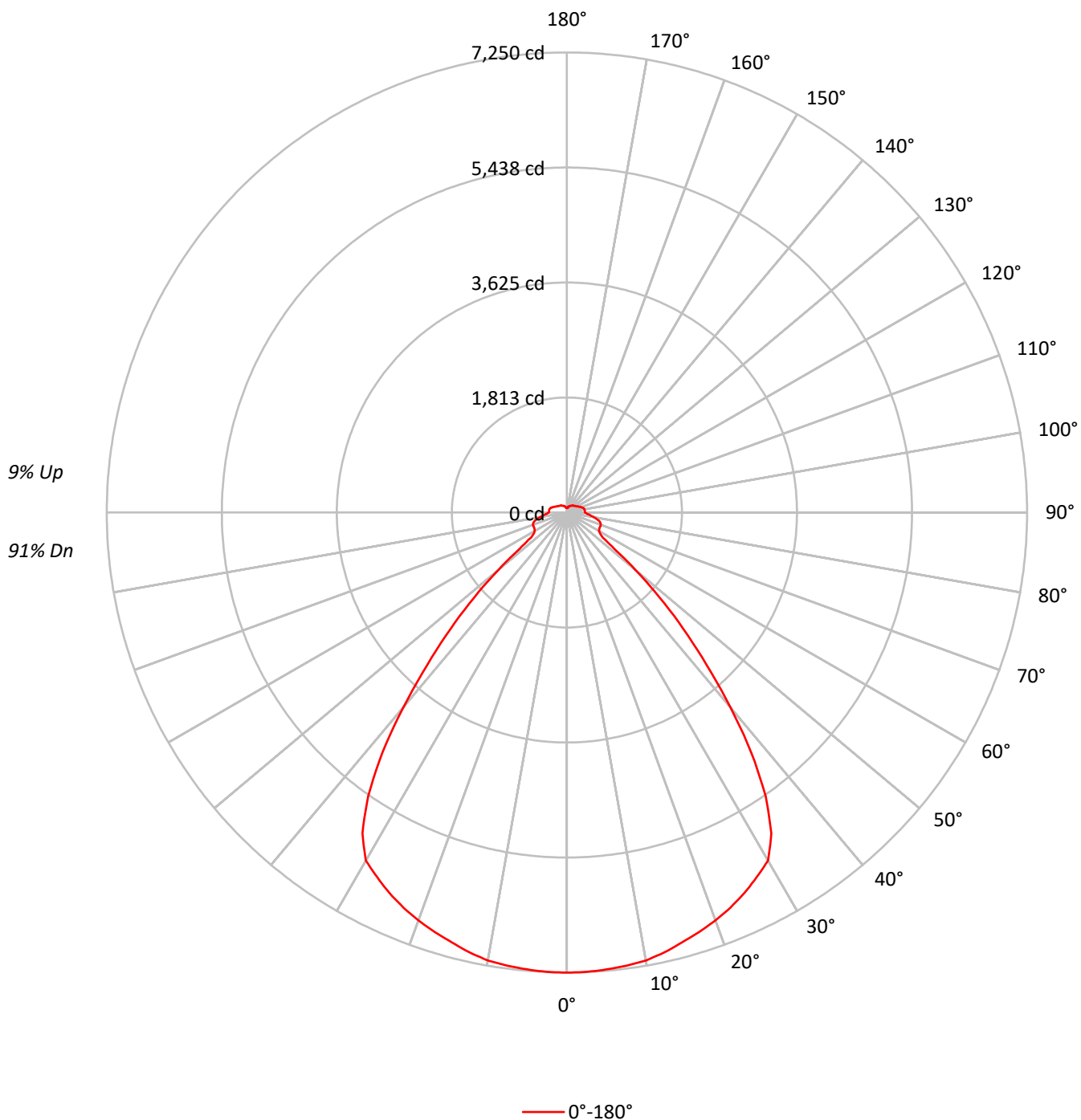
Lumens per Lamp: N/A
Luminaire Lumens: 14530.9 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.18
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')
CIE Type: Direct

Input Watts (W): 96.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 7.15
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°	58707
5°	56336
10°	54255
15°	51980
20°	50032
25°	48129
30°	46182
35°	40205
40°	30054
45°	19938
50°	11306
55°	5745
60°	5122
65°	5316
70°	5742
75°	5858
80°	5354
85°	4760

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19938 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	688.1	4.7
10°-20°	1983.1	13.6
20°-30°	3050.3	21.0
30°-40°	3332.7	22.9
40°-50°	2013.4	13.9
50°-60°	723.2	5.0
60°-70°	567.7	3.9
70°-80°	547.4	3.8
80°-90°	377.1	2.6
90°-100°	307.7	2.1
100°-110°	281.7	1.9
110°-120°	214.0	1.5
120°-130°	157.6	1.1
130°-140°	117.7	0.8
140°-150°	83.1	0.6
150°-160°	52.8	0.4
160°-170°	26.4	0.2
170°-180°	6.8	0.0
0°-30°	5721.5	39.4
0°-40°	9054.2	62.3
0°-60°	11790.9	81.1
0°-90°	13283.1	91.4
90°-120°	803.4	5.5
90°-150°	1161.8	8.0
90°-180°	1248.0	8.6
0°-180°	14530.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7250	
5°	7228	688
15°	7014	1983
25°	6616	3050
35°	5461	3333
45°	2593	2013
55°	691	723
65°	569	568
75°	529	547
85°	338	297
90°	284	158
95°	282	230
105°	269	282
115°	214	214
125°	174	158
135°	152	118
145°	132	83
155°	114	53
165°	92	26
175°	70	7
180°	69	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	7250.4
2.5°	7245.9
5°	7227.9
7.5°	7204.2
10°	7168.2
12.5°	7100.6
15°	7013.9
17.5°	6931.7
20°	6840.5
22.5°	6738.0
25°	6616.4
27.5°	6477.9
30°	6334.9
32.5°	5994.9
35°	5461.1
37.5°	4776.5
40°	4010.8
42.5°	3249.7
45°	2593.2
47.5°	1980.7
50°	1421.0
52.5°	938.0
55°	691.4
57.5°	621.6
60°	584.4
62.5°	573.1
65°	568.6
67.5°	569.8
70°	568.6
72.5°	556.2
75°	529.2
77.5°	485.3
80°	433.5
82.5°	382.8
85°	337.8
87.5°	304.0
90°	283.8
92.5°	281.5
95°	281.5
97.5°	282.6
100°	281.5
102.5°	277.0
105°	269.1
107.5°	256.7
110°	242.1



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	228.6
115°	213.9
117.5°	201.6
120°	191.4
122.5°	182.4
125°	174.5
127.5°	167.8
130°	162.1
132.5°	156.5
135°	152.0
137.5°	146.4
140°	141.9
142.5°	136.2
145°	131.7
147.5°	127.2
150°	122.7
152.5°	118.2
155°	113.7
157.5°	109.2
160°	103.6
162.5°	98.0
165°	92.3
167.5°	85.6
170°	78.8
172.5°	69.8
175°	69.8
177.5°	68.7
180°	68.7

(END OF REPORT)