

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: P980658

Luminaire Tested: UHBS2-1218-W-L83065-MID-6500K-FRR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-4)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-W-L83065-MID-6500K-FRR3
Description: UHBS2 LED High Bay at 6500K and MID lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

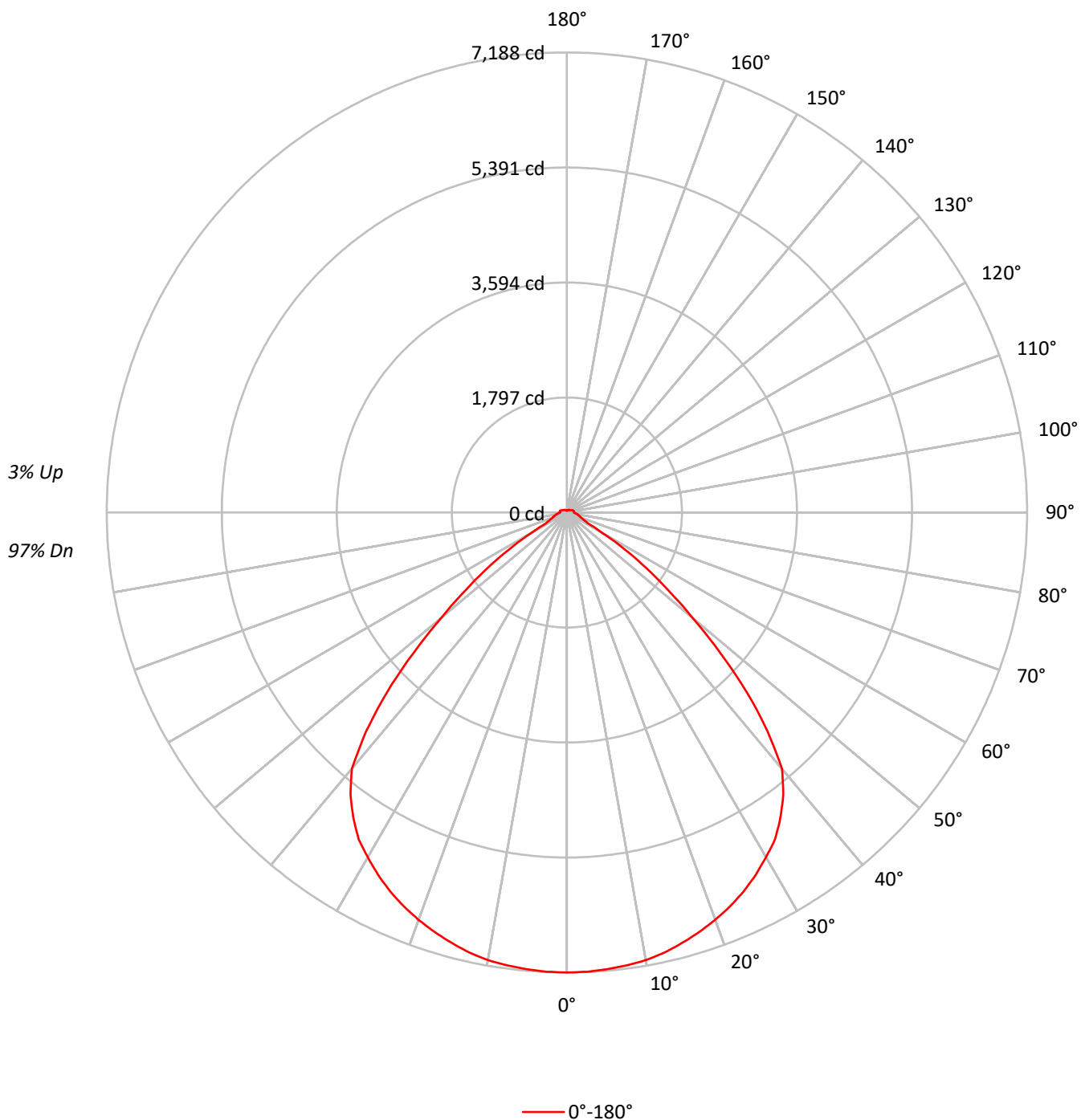
Lumens per Lamp: N/A
Luminaire Lumens: 14867.1 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.31
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 0.25')
CIE Type: Direct

Input Watts (W): 98.7
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	30	10
RCR																	
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99
1	111	107	104	101	108	104	101	99	100	97	95	95	93	92	91	90	88
2	103	96	91	86	100	94	89	85	90	86	83	87	83	80	83	81	78
3	95	87	80	75	93	85	79	74	82	77	73	79	75	71	76	73	70
4	89	79	72	66	86	77	71	65	75	69	64	72	67	63	70	65	62
5	82	72	64	58	80	70	63	58	68	62	57	66	60	56	64	59	55
6	77	65	58	52	75	64	57	52	62	56	51	60	55	50	59	54	50
7	72	60	52	47	70	59	52	46	57	51	46	56	50	45	54	49	45
8	67	55	47	42	65	54	47	42	53	46	42	51	45	41	50	45	41
9	63	51	43	38	61	50	43	38	49	42	38	47	42	38	46	41	37
10	59	47	40	35	58	46	40	35	45	39	35	44	38	34	43	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	72456
5°	70791
10°	69359
15°	67707
20°	66090
25°	64458
30°	62538
35°	60086
40°	55946
45°	44546
50°	30316
55°	19113
60°	8948
65°	4714
70°	4005
75°	3849
80°	3800
85°	3798

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 44546 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	681.9	4.6
10°-20°	1966.5	13.2
20°-30°	3009.5	20.2
30°-40°	3622.3	24.4
40°-50°	3023.6	20.3
50°-60°	1370.0	9.2
60°-70°	347.9	2.3
70°-80°	211.8	1.4
80°-90°	147.8	1.0
90°-100°	119.3	0.8
100°-110°	112.5	0.8
110°-120°	83.7	0.6
120°-130°	59.7	0.4
130°-140°	44.8	0.3
140°-150°	32.1	0.2
150°-160°	20.6	0.1
160°-170°	10.4	0.1
170°-180°	2.8	0.0
0°-30°	5657.9	38.1
0°-40°	9280.2	62.4
0°-60°	13673.9	92.0
0°-90°	14381.4	96.7
90°-120°	315.4	2.1
90°-150°	452.0	3.0
90°-180°	486.0	3.3
0°-180°	14867.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7188	
5°	7163	682
15°	6962	1966
25°	6533	3009
35°	5816	3622
45°	3978	3024
55°	1512	1370
65°	313	348
75°	200	212
85°	135	117
90°	106	60
95°	109	90
105°	107	112
115°	83	84
125°	66	60
135°	58	45
145°	51	32
155°	44	21
165°	36	10
175°	28	3
180°	27	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	7187.7
2.5°	7182.1
5°	7162.9
7.5°	7139.3
10°	7102.1
12.5°	7043.5
15°	6962.3
17.5°	6873.3
20°	6773.0
22.5°	6660.2
25°	6532.9
27.5°	6383.0
30°	6219.5
32.5°	6051.6
35°	5816.0
37.5°	5552.3
40°	5225.4
42.5°	4640.4
45°	3977.7
47.5°	3252.9
50°	2562.0
52.5°	1996.2
55°	1511.5
57.5°	1065.1
60°	653.7
62.5°	381.0
65°	313.3
67.5°	270.5
70°	237.8
72.5°	217.5
75°	199.5
77.5°	182.6
80°	166.8
82.5°	151.0
85°	135.3
87.5°	119.5
90°	106.0
92.5°	107.1
95°	109.3
97.5°	111.6
100°	112.7
102.5°	110.5
105°	107.1
107.5°	102.6
110°	96.9



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	90.2
115°	83.4
117.5°	77.8
120°	73.3
122.5°	68.8
125°	66.5
127.5°	63.1
130°	60.9
132.5°	59.7
135°	57.5
137.5°	56.4
140°	54.1
142.5°	53.0
145°	50.7
147.5°	49.6
150°	47.3
152.5°	46.2
155°	44.0
157.5°	42.8
160°	40.6
162.5°	38.3
165°	36.1
167.5°	33.8
170°	31.6
172.5°	28.2
175°	28.2
177.5°	28.2
180°	27.1

(END OF REPORT)