

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: P980652

Luminaire Tested: UHBS2-1218-W-L83065-MID-4000K-FRR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980652
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-4000K-FRR3
Description: UHBS2 LED High Bay at 4000K and MID lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

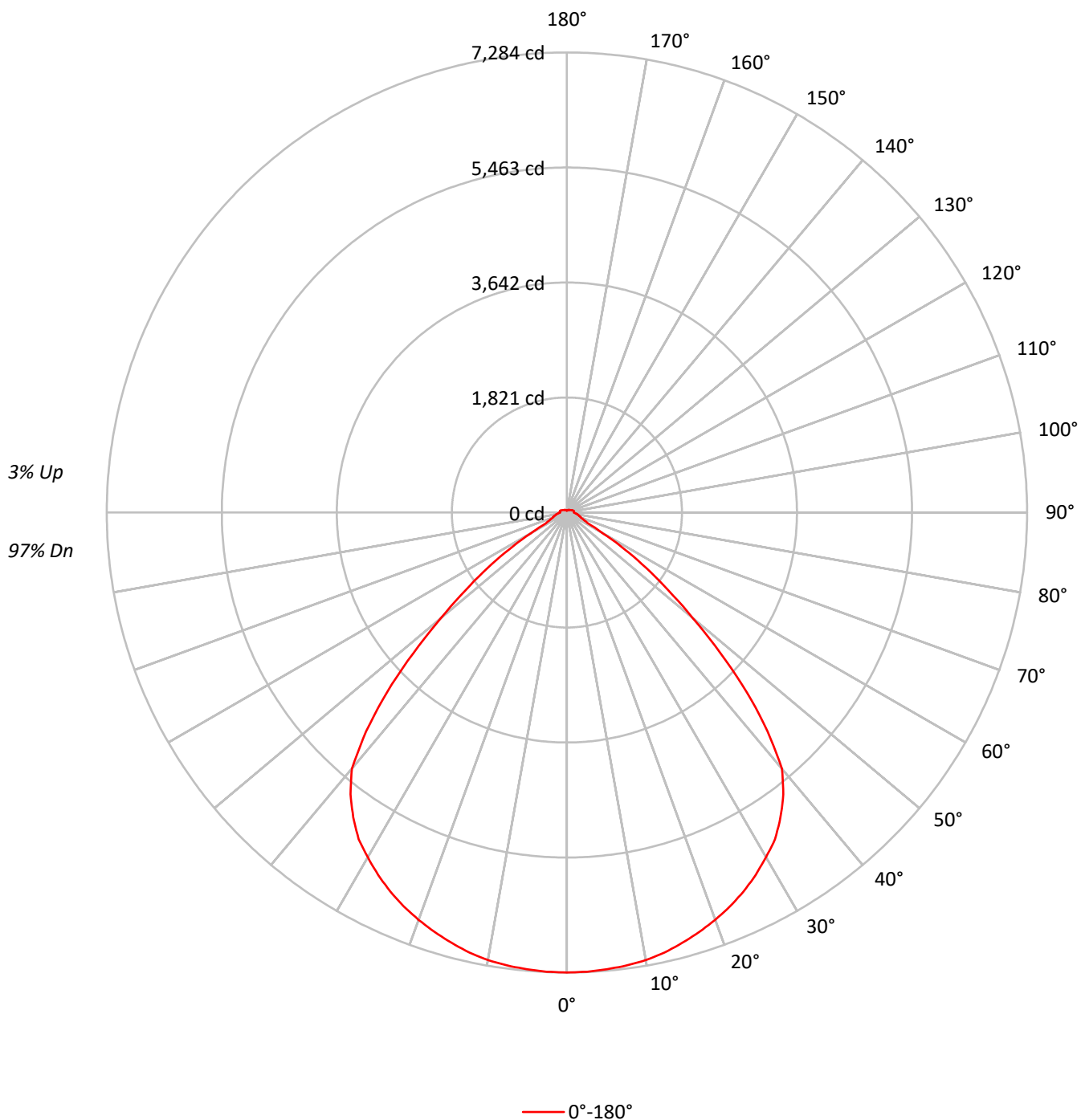
Lumens per Lamp: N/A
Luminaire Lumens: 15066.0 lumens
Efficiency: N/A
Efficacy: 156.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.31
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 0.25')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	73427
5°	71739
10°	70286
15°	68613
20°	66974
25°	65320
30°	63376
35°	60891
40°	56695
45°	45141
50°	30722
55°	19368
60°	9069
65°	4777
70°	4059
75°	3901
80°	3850
85°	3849

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 45141 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	691.1	4.6
10°-20°	1992.8	13.2
20°-30°	3049.8	20.2
30°-40°	3670.8	24.4
40°-50°	3064.1	20.3
50°-60°	1388.4	9.2
60°-70°	352.5	2.3
70°-80°	214.6	1.4
80°-90°	149.8	1.0
90°-100°	120.9	0.8
100°-110°	113.9	0.8
110°-120°	84.7	0.6
120°-130°	60.4	0.4
130°-140°	45.4	0.3
140°-150°	32.6	0.2
150°-160°	20.8	0.1
160°-170°	10.5	0.1
170°-180°	2.8	0.0
0°-30°	5733.6	38.1
0°-40°	9404.4	62.4
0°-60°	13856.9	92.0
0°-90°	14573.9	96.7
90°-120°	319.5	2.1
90°-150°	458.0	3.0
90°-180°	492.0	3.3
0°-180°	15066.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7284	
5°	7259	691
15°	7056	1993
25°	6620	3050
35°	5894	3671
45°	4031	3064
55°	1532	1388
65°	318	353
75°	202	215
85°	137	118
90°	107	61
95°	111	91
105°	108	114
115°	84	85
125°	67	60
135°	58	45
145°	51	33
155°	44	21
165°	37	10
175°	29	3
180°	27	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	7284.0
2.5°	7278.2
5°	7258.8
7.5°	7234.8
10°	7197.1
12.5°	7137.7
15°	7055.5
17.5°	6965.3
20°	6863.6
22.5°	6749.4
25°	6620.3
27.5°	6468.4
30°	6302.8
32.5°	6132.6
35°	5893.9
37.5°	5626.6
40°	5295.3
42.5°	4702.5
45°	4030.9
47.5°	3296.5
50°	2596.3
52.5°	2022.9
55°	1531.7
57.5°	1079.4
60°	662.5
62.5°	386.1
65°	317.5
67.5°	274.1
70°	241.0
72.5°	220.4
75°	202.2
77.5°	185.0
80°	169.0
82.5°	153.1
85°	137.1
87.5°	121.1
90°	107.4
92.5°	108.5
95°	110.8
97.5°	113.1
100°	114.2
102.5°	111.9
105°	108.5
107.5°	103.9
110°	98.2



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	91.4
115°	84.5
117.5°	78.8
120°	74.2
122.5°	69.7
125°	67.4
127.5°	64.0
130°	61.7
132.5°	60.5
135°	58.3
137.5°	57.1
140°	54.8
142.5°	53.7
145°	51.4
147.5°	50.3
150°	48.0
152.5°	46.8
155°	44.5
157.5°	43.4
160°	41.1
162.5°	38.8
165°	36.6
167.5°	34.3
170°	32.0
172.5°	28.6
175°	28.6
177.5°	28.6
180°	27.4

(END OF REPORT)