

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: P980600

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

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-9)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-N-L83065-LOW-4000K-FRR6
Description: UHBS2 LED High Bay at 4000K and LOW lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

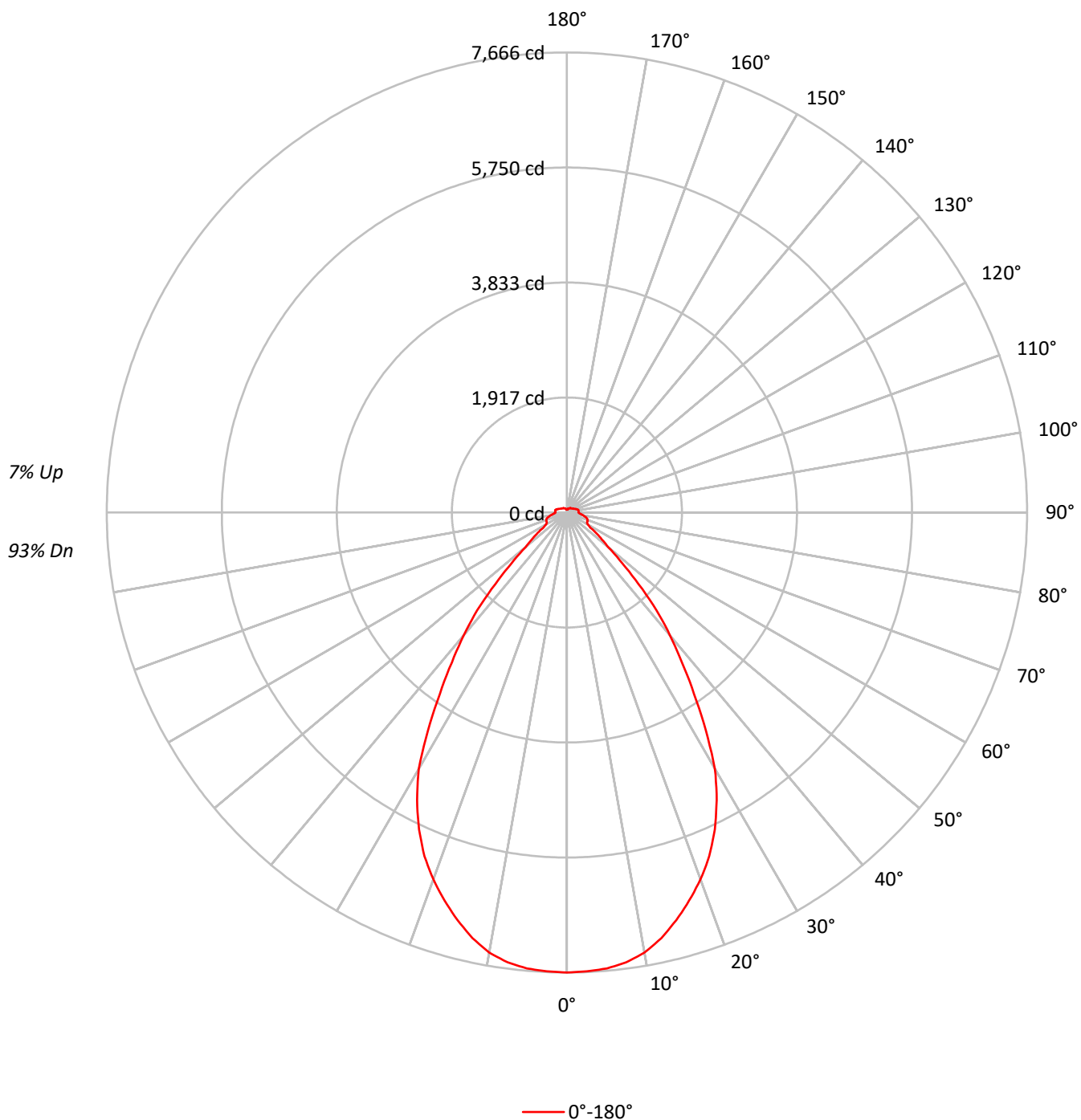
Lumens per Lamp: N/A
Luminaire Lumens: 11351.0 lumens
Efficiency: N/A
Efficacy: 144.4 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')
CIE Type: Direct

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	114	114	114	114	107	107	107		101	101	101		95
1	109	105	102	99	106	102	99	97	97	94	92		92	90	88		87
2	102	95	90	85	99	93	88	84	88	84	81		84	81	78		80
3	95	87	80	75	92	85	79	74	81	76	72		77	73	70		74
4	89	79	72	67	86	78	71	66	74	69	65		71	67	63		69
5	83	73	66	60	81	71	65	60	69	63	58		66	61	57		64
6	78	67	60	55	76	66	59	54	64	58	53		61	56	52		59
7	73	62	55	50	71	61	54	50	59	53	49		57	52	48		55
8	69	58	51	46	67	57	50	46	55	49	45		53	48	44		52
9	65	54	47	42	64	53	47	42	52	46	42		50	45	41		49
10	62	50	44	39	60	50	43	39	48	43	39		47	42	38		46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	62072
5°	59440
10°	56357
15°	52136
20°	47595
25°	42402
30°	35963
35°	27188
40°	20015
45°	12957
50°	7150
55°	4904
60°	3526
65°	3460
70°	3708
75°	3708
80°	3376
85°	3101

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12957 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	722.3	6.4
10°-20°	1974.5	17.4
20°-30°	2657.7	23.4
30°-40°	2320.0	20.4
40°-50°	1323.2	11.7
50°-60°	541.1	4.8
60°-70°	373.2	3.3
70°-80°	347.8	3.1
80°-90°	245.0	2.2
90°-100°	213.3	1.9
100°-110°	195.4	1.7
110°-120°	143.3	1.3
120°-130°	103.7	0.9
130°-140°	77.6	0.7
140°-150°	55.2	0.5
150°-160°	35.3	0.3
160°-170°	17.7	0.2
170°-180°	4.7	0.0
0°-30°	5354.5	47.2
0°-40°	7674.6	67.6
0°-60°	9538.9	84.0
0°-90°	10504.9	92.5
90°-120°	552.0	4.9
90°-150°	788.5	6.9
90°-180°	846.0	7.5
0°-180°	11351.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7666	
5°	7626	722
15°	7035	1974
25°	5829	2658
35°	3693	2320
45°	1685	1323
55°	590	541
65°	370	373
75°	335	348
85°	220	191
90°	192	107
95°	196	160
105°	187	195
115°	143	143
125°	115	104
135°	100	78
145°	87	55
155°	76	35
165°	63	18
175°	48	5
180°	47	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	7666.0
2.5°	7653.7
5°	7626.1
7.5°	7561.6
10°	7445.9
12.5°	7265.6
15°	7035.0
17.5°	6778.8
20°	6507.4
22.5°	6198.1
25°	5829.0
27.5°	5404.8
30°	4933.2
32.5°	4306.0
35°	3693.0
37.5°	3149.3
40°	2671.1
42.5°	2211.8
45°	1685.2
47.5°	1252.5
50°	898.6
52.5°	734.4
55°	590.2
57.5°	457.4
60°	402.3
62.5°	378.6
65°	370.1
67.5°	371.0
70°	367.2
72.5°	355.8
75°	335.0
77.5°	305.5
80°	273.3
82.5°	244.8
85°	220.1
87.5°	201.2
90°	191.7
92.5°	193.6
95°	195.5
97.5°	198.3
100°	197.4
102.5°	193.6
105°	186.9
107.5°	176.5
110°	165.1

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	153.7
115°	143.3
117.5°	133.8
120°	126.2
122.5°	120.5
125°	114.8
127.5°	110.1
130°	106.3
132.5°	103.4
135°	99.6
137.5°	96.8
140°	93.9
142.5°	91.1
145°	87.3
147.5°	84.5
150°	81.6
152.5°	78.8
155°	75.9
157.5°	73.1
160°	69.3
162.5°	65.5
165°	62.6
167.5°	57.9
170°	53.1
172.5°	48.4
175°	48.4
177.5°	47.4
180°	47.4

(END OF REPORT)