

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: P980659

Luminaire Tested: UHBS2-1218-W-L83065-MID-6500K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980659
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-6500K-FRR6
Description: UHBS2 LED High Bay at 6500K and MID lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

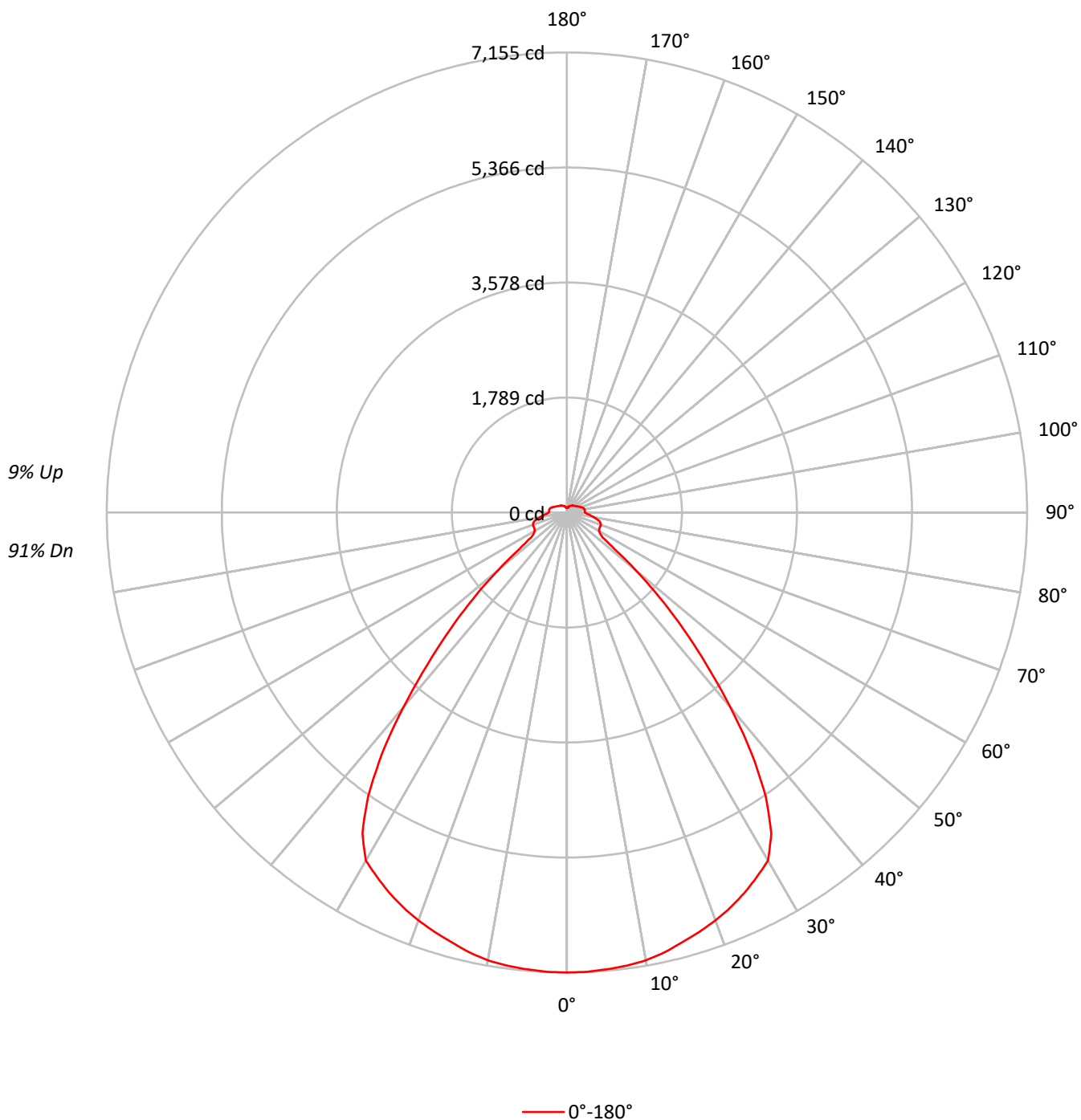
Lumens per Lamp: N/A
Luminaire Lumens: 14338.9 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.18
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')
CIE Type: Direct

Input Watts (W): 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
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°	57931
5°	55592
10°	53538
15°	51293
20°	49370
25°	47494
30°	45572
35°	39675
40°	29657
45°	19674
50°	11157
55°	5669
60°	5055
65°	5246
70°	5666
75°	5780
80°	5284
85°	4697

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19674 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.0	4.7
10°-20°	1956.9	13.6
20°-30°	3010.0	21.0
30°-40°	3288.7	22.9
40°-50°	1986.8	13.9
50°-60°	713.6	5.0
60°-70°	560.2	3.9
70°-80°	540.2	3.8
80°-90°	372.1	2.6
90°-100°	303.7	2.1
100°-110°	278.0	1.9
110°-120°	211.1	1.5
120°-130°	155.5	1.1
130°-140°	116.1	0.8
140°-150°	82.0	0.6
150°-160°	52.1	0.4
160°-170°	26.0	0.2
170°-180°	6.7	0.0
0°-30°	5645.9	39.4
0°-40°	8934.6	62.3
0°-60°	11635.1	81.1
0°-90°	13107.6	91.4
90°-120°	792.8	5.5
90°-150°	1146.5	8.0
90°-180°	1231.0	8.6
0°-180°	14338.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7155	
5°	7132	679
15°	6921	1957
25°	6529	3010
35°	5389	3289
45°	2559	1987
55°	682	714
65°	561	560
75°	522	540
85°	333	293
90°	280	156
95°	278	227
105°	266	278
115°	211	211
125°	172	156
135°	150	116
145°	130	82
155°	112	52
165°	91	26
175°	69	7
180°	68	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	7154.6
2.5°	7150.1
5°	7132.4
7.5°	7109.0
10°	7073.5
12.5°	7006.8
15°	6921.2
17.5°	6840.1
20°	6750.1
22.5°	6649.0
25°	6529.0
27.5°	6392.3
30°	6251.2
32.5°	5915.7
35°	5389.0
37.5°	4713.4
40°	3957.9
42.5°	3206.7
45°	2558.9
47.5°	1954.5
50°	1402.2
52.5°	925.6
55°	682.2
57.5°	613.3
60°	576.7
62.5°	565.6
65°	561.1
67.5°	562.2
70°	561.1
72.5°	548.9
75°	522.2
77.5°	478.9
80°	427.8
82.5°	377.8
85°	333.3
87.5°	300.0
90°	280.0
92.5°	277.8
95°	277.8
97.5°	278.9
100°	277.8
102.5°	273.3
105°	265.6
107.5°	253.3
110°	238.9

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	225.6
115°	211.1
117.5°	198.9
120°	188.9
122.5°	180.0
125°	172.2
127.5°	165.6
130°	160.0
132.5°	154.4
135°	150.0
137.5°	144.4
140°	140.0
142.5°	134.4
145°	130.0
147.5°	125.6
150°	121.1
152.5°	116.7
155°	112.2
157.5°	107.8
160°	102.2
162.5°	96.7
165°	91.1
167.5°	84.4
170°	77.8
172.5°	68.9
175°	68.9
177.5°	67.8
180°	67.8

(END OF REPORT)