

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: P980626

Luminaire Tested: UHBS2-1218-W-L83065-HIGH-5000K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980626
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-HIGH-5000K-FRR6
Description: UHBS2 LED High Bay at 5000K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

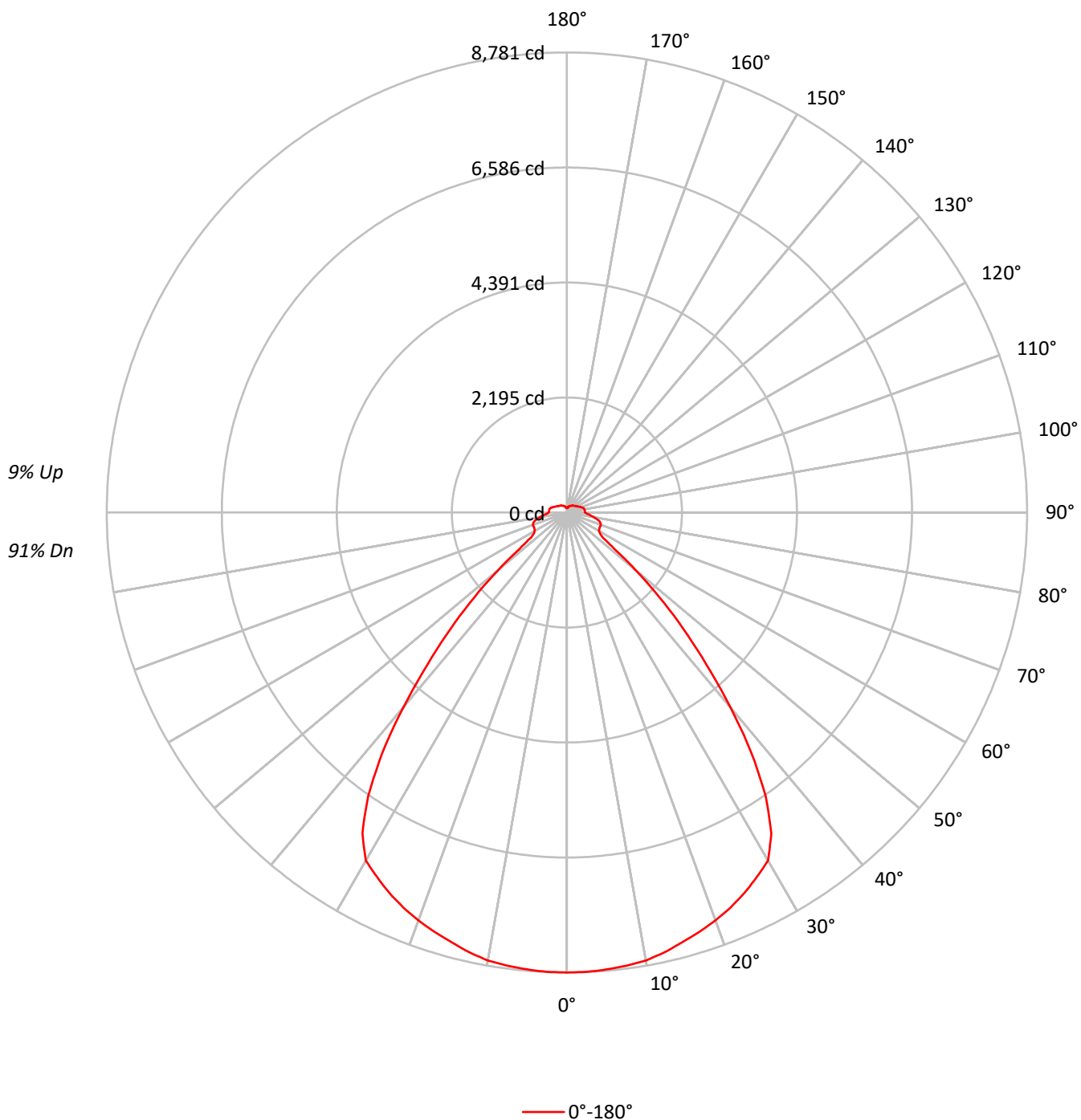
Lumens per Lamp: N/A
Luminaire Lumens: 17599.0 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.18
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')
CIE Type: Direct

Input Watts (W): 119.2
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 6.9
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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94
1	108	104	101	97	105	101	98	95	95	93	90	90	88	86	85	84	82
2	100	94	88	83	97	91	86	81	86	82	78	82	78	75	78	75	72
3	93	85	78	72	90	82	76	71	78	73	69	75	70	67	71	68	65
4	87	77	69	64	84	75	68	63	72	66	61	68	63	60	65	61	58
5	81	70	62	57	78	68	61	56	66	59	55	63	58	53	60	56	52
6	76	64	57	51	73	63	56	50	60	54	49	58	53	48	56	51	47
7	71	59	51	46	69	58	51	46	56	49	45	54	48	44	52	47	43
8	66	55	47	42	64	53	46	42	52	45	41	50	44	40	48	43	39
9	62	50	43	38	61	50	43	38	48	42	37	46	41	37	45	40	36
10	59	47	40	35	57	46	39	35	45	39	34	43	38	34	42	37	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	71102
5°	68230
10°	65710
15°	62955
20°	60595
25°	58292
30°	55933
35°	48695
40°	36400
45°	24148
50°	13694
55°	6958
60°	6204
65°	6439
70°	6955
75°	7096
80°	6485
85°	5765

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 24148 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	833.4	4.7
10°-20°	2401.8	13.6
20°-30°	3694.4	21.0
30°-40°	4036.4	22.9
40°-50°	2438.5	13.9
50°-60°	875.9	5.0
60°-70°	687.6	3.9
70°-80°	663.0	3.8
80°-90°	456.7	2.6
90°-100°	372.7	2.1
100°-110°	341.2	1.9
110°-120°	259.1	1.5
120°-130°	190.9	1.1
130°-140°	142.6	0.8
140°-150°	100.6	0.6
150°-160°	64.0	0.4
160°-170°	31.9	0.2
170°-180°	8.3	0.0
0°-30°	6929.5	39.4
0°-40°	10966.0	62.3
0°-60°	14280.4	81.1
0°-90°	16087.7	91.4
90°-120°	973.0	5.5
90°-150°	1407.1	8.0
90°-180°	1511.0	8.6
0°-180°	17599.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8781	
5°	8754	833
15°	8495	2402
25°	8013	3694
35°	6614	4036
45°	3141	2438
55°	837	876
65°	689	688
75°	641	663
85°	409	359
90°	344	191
95°	341	279
105°	326	341
115°	259	259
125°	211	191
135°	184	143
145°	160	101
155°	138	64
165°	112	32
175°	85	8
180°	83	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	8781.2
2.5°	8775.7
5°	8753.9
7.5°	8725.3
10°	8681.6
12.5°	8599.8
15°	8494.8
17.5°	8395.2
20°	8284.8
22.5°	8160.7
25°	8013.4
27.5°	7845.7
30°	7672.5
32.5°	7260.6
35°	6614.2
37.5°	5785.0
40°	4857.7
42.5°	3935.8
45°	3140.7
47.5°	2398.8
50°	1721.1
52.5°	1136.0
55°	837.3
57.5°	752.8
60°	707.8
62.5°	694.1
65°	688.7
67.5°	690.1
70°	688.7
72.5°	673.7
75°	641.0
77.5°	587.8
80°	525.0
82.5°	463.7
85°	409.1
87.5°	368.2
90°	343.7
92.5°	340.9
95°	340.9
97.5°	342.3
100°	340.9
102.5°	335.5
105°	325.9
107.5°	310.9
110°	293.2

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	276.8
115°	259.1
117.5°	244.1
120°	231.8
122.5°	220.9
125°	211.4
127.5°	203.2
130°	196.4
132.5°	189.6
135°	184.1
137.5°	177.3
140°	171.8
142.5°	165.0
145°	159.6
147.5°	154.1
150°	148.6
152.5°	143.2
155°	137.7
157.5°	132.3
160°	125.5
162.5°	118.6
165°	111.8
167.5°	103.6
170°	95.5
172.5°	84.6
175°	84.6
177.5°	83.2
180°	83.2

(END OF REPORT)