

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: P980620

Luminaire Tested: UHBS2-1218-W-L83065-HIGH-3500K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980620
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-3500K-FRR6
Description: UHBS2 LED High Bay at 3500K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

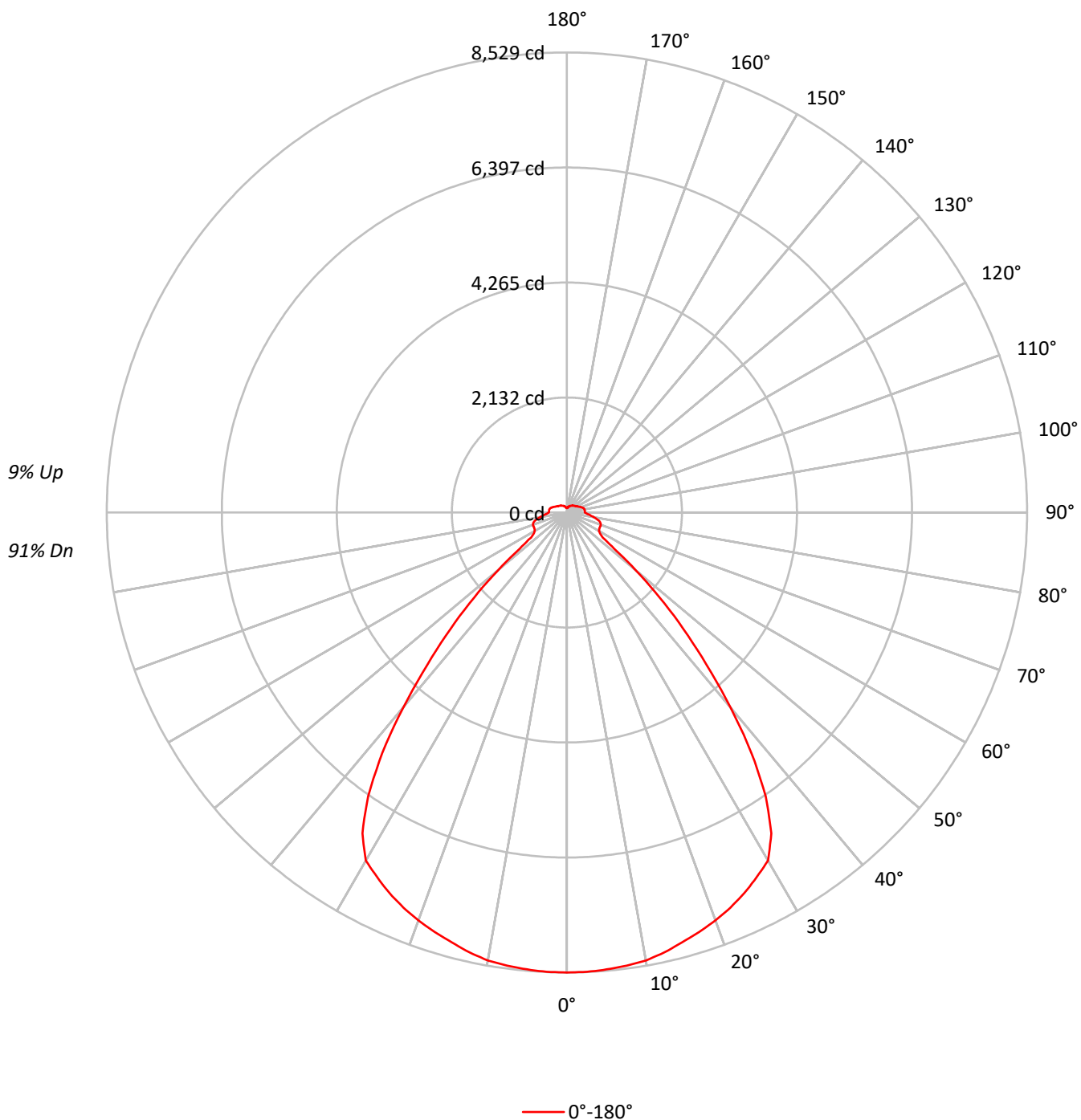
Lumens per Lamp: N/A
Luminaire Lumens: 17094.1 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.18
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')
CIE Type: Direct

Input Watts (W): 120.5
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

TEST NUMBER: P980620

CATALOG NUMBER: UHBS2-1218-W-L83065-HIGH-3500K-FRR6

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°	69061
5°	66272
10°	63825
15°	61148
20°	58857
25°	56619
30°	54328
35°	47297
40°	35355
45°	23455
50°	13301
55°	6758
60°	6026
65°	6253
70°	6755
75°	6892
80°	6299
85°	5600

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 23455 cd/sqm

TEST NUMBER: P980620

CATALOG NUMBER: UHBS2-1218-W-L83065-HIGH-3500K-FRR6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	809.5	4.7
10°-20°	2332.8	13.6
20°-30°	3588.3	21.0
30°-40°	3920.6	22.9
40°-50°	2368.5	13.9
50°-60°	850.8	5.0
60°-70°	667.8	3.9
70°-80°	644.0	3.8
80°-90°	443.6	2.6
90°-100°	362.1	2.1
100°-110°	331.4	1.9
110°-120°	251.7	1.5
120°-130°	185.4	1.1
130°-140°	138.5	0.8
140°-150°	97.7	0.6
150°-160°	62.2	0.4
160°-170°	31.0	0.2
170°-180°	8.0	0.0
0°-30°	6730.7	39.4
0°-40°	10651.3	62.3
0°-60°	13870.6	81.1
0°-90°	15626.1	91.4
90°-120°	945.2	5.5
90°-150°	1366.8	8.0
90°-180°	1468.0	8.6
0°-180°	17094.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8529	
5°	8503	810
15°	8251	2333
25°	7784	3588
35°	6424	3921
45°	3051	2369
55°	813	851
65°	669	668
75°	623	644
85°	397	349
90°	334	186
95°	331	271
105°	317	331
115°	252	252
125°	205	185
135°	179	138
145°	155	98
155°	134	62
165°	109	31
175°	82	8
180°	81	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	8529.2
2.5°	8523.9
5°	8502.7
7.5°	8474.9
10°	8432.5
12.5°	8353.0
15°	8251.0
17.5°	8154.3
20°	8047.1
22.5°	7926.5
25°	7783.5
27.5°	7620.5
30°	7452.3
32.5°	7052.3
35°	6424.4
37.5°	5619.0
40°	4718.3
42.5°	3822.8
45°	3050.6
47.5°	2330.0
50°	1671.7
52.5°	1103.4
55°	813.3
57.5°	731.2
60°	687.5
62.5°	674.2
65°	668.9
67.5°	670.3
70°	668.9
72.5°	654.4
75°	622.6
77.5°	570.9
80°	510.0
82.5°	450.4
85°	397.4
87.5°	357.6
90°	333.8
92.5°	331.2
95°	331.2
97.5°	332.5
100°	331.2
102.5°	325.9
105°	316.6
107.5°	302.0
110°	284.8

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CATALOG NUMBER: UHBS2-1218-W-L83065-HIGH-3500K-FRR6

CANDELA DISTRIBUTION (continued):

	0°
112.5°	268.9
115°	251.7
117.5°	237.1
120°	225.2
122.5°	214.6
125°	205.3
127.5°	197.4
130°	190.7
132.5°	184.1
135°	178.8
137.5°	172.2
140°	166.9
142.5°	160.3
145°	155.0
147.5°	149.7
150°	144.4
152.5°	139.1
155°	133.8
157.5°	128.5
160°	121.9
162.5°	115.2
165°	108.6
167.5°	100.7
170°	92.7
172.5°	82.1
175°	82.1
177.5°	80.8
180°	80.8

(END OF REPORT)