

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: P980635

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

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980635
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-LOW-3500K-FRR6
Description: UHBS2 LED High Bay at 3500K and LOW lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

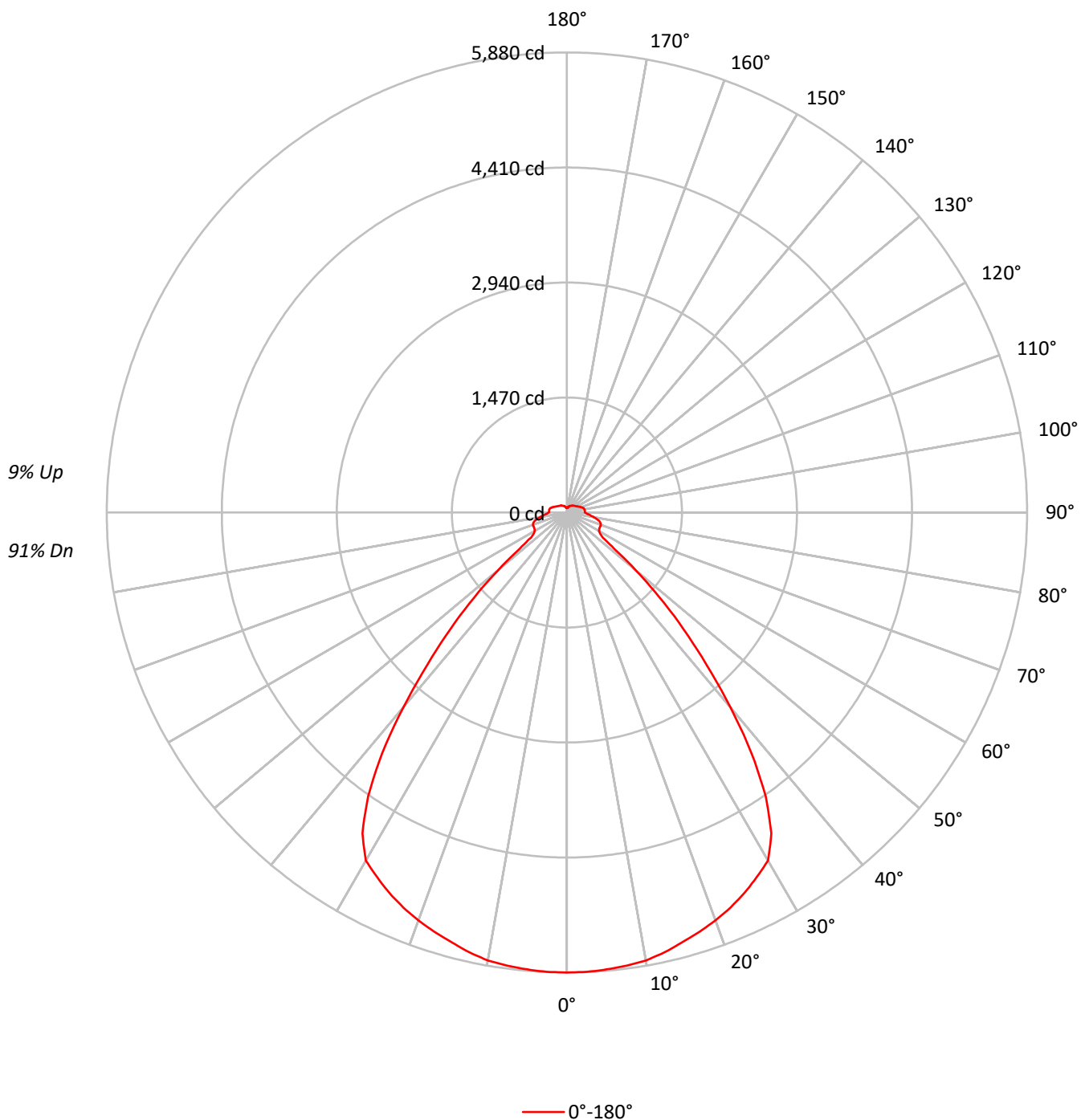
Lumens per Lamp: N/A
Luminaire Lumens: 11785.0 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.18
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')
CIE Type: Direct

Input Watts (W): 79.4
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

TEST NUMBER: P980635

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

Luminous Intensity Polar Plot



TEST NUMBER: P980635

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

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°	47612
5°	45690
10°	44002
15°	42157
20°	40577
25°	39034
30°	37455
35°	32608
40°	24375
45°	16171
50°	9170
55°	4659
60°	4155
65°	4312
70°	4657
75°	4751
80°	4343
85°	3861

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16171 cd/sqm

TEST NUMBER: P980635

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.1	4.7
10°-20°	1608.3	13.6
20°-30°	2473.9	21.0
30°-40°	2703.0	22.9
40°-50°	1632.9	13.9
50°-60°	586.5	5.0
60°-70°	460.4	3.9
70°-80°	444.0	3.8
80°-90°	305.9	2.6
90°-100°	249.6	2.1
100°-110°	228.5	1.9
110°-120°	173.5	1.5
120°-130°	127.8	1.1
130°-140°	95.5	0.8
140°-150°	67.4	0.6
150°-160°	42.8	0.4
160°-170°	21.4	0.2
170°-180°	5.5	0.0
0°-30°	4640.3	39.4
0°-40°	7343.3	62.3
0°-60°	9562.7	81.1
0°-90°	10773.0	91.4
90°-120°	651.6	5.5
90°-150°	942.2	8.0
90°-180°	1012.0	8.6
0°-180°	11785.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5880	
5°	5862	558
15°	5688	1608
25°	5366	2474
35°	4429	2703
45°	2103	1633
55°	561	587
65°	461	460
75°	429	444
85°	274	241
90°	230	128
95°	228	187
105°	218	229
115°	174	174
125°	142	128
135°	123	95
145°	107	67
155°	92	43
165°	75	21
175°	57	6
180°	56	



TEST NUMBER: P980635

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

CANDELA DISTRIBUTION (FULL):

0°	
0°	5880.2
2.5°	5876.6
5°	5862.0
7.5°	5842.8
10°	5813.6
12.5°	5758.8
15°	5688.5
17.5°	5621.8
20°	5547.8
22.5°	5464.7
25°	5366.1
27.5°	5253.8
30°	5137.8
32.5°	4862.0
35°	4429.1
37.5°	3873.9
40°	3252.9
42.5°	2635.6
45°	2103.2
47.5°	1606.4
50°	1152.5
52.5°	760.7
55°	560.7
57.5°	504.1
60°	474.0
62.5°	464.8
65°	461.2
67.5°	462.1
70°	461.2
72.5°	451.1
75°	429.2
77.5°	393.6
80°	351.6
82.5°	310.5
85°	274.0
87.5°	246.6
90°	230.1
92.5°	228.3
95°	228.3
97.5°	229.2
100°	228.3
102.5°	224.7
105°	218.3
107.5°	208.2
110°	196.3

TEST NUMBER: P980635

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

CANDELA DISTRIBUTION (continued):

	0°
112.5°	185.4
115°	173.5
117.5°	163.5
120°	155.2
122.5°	147.9
125°	141.5
127.5°	136.1
130°	131.5
132.5°	126.9
135°	123.3
137.5°	118.7
140°	115.1
142.5°	110.5
145°	106.8
147.5°	103.2
150°	99.5
152.5°	95.9
155°	92.2
157.5°	88.6
160°	84.0
162.5°	79.5
165°	74.9
167.5°	69.4
170°	63.9
172.5°	56.6
175°	56.6
177.5°	55.7
180°	55.7

(END OF REPORT)