

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: P980650

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

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980650
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-3500K-FRR6
Description: UHBS2 LED High Bay at 3500K and MID lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

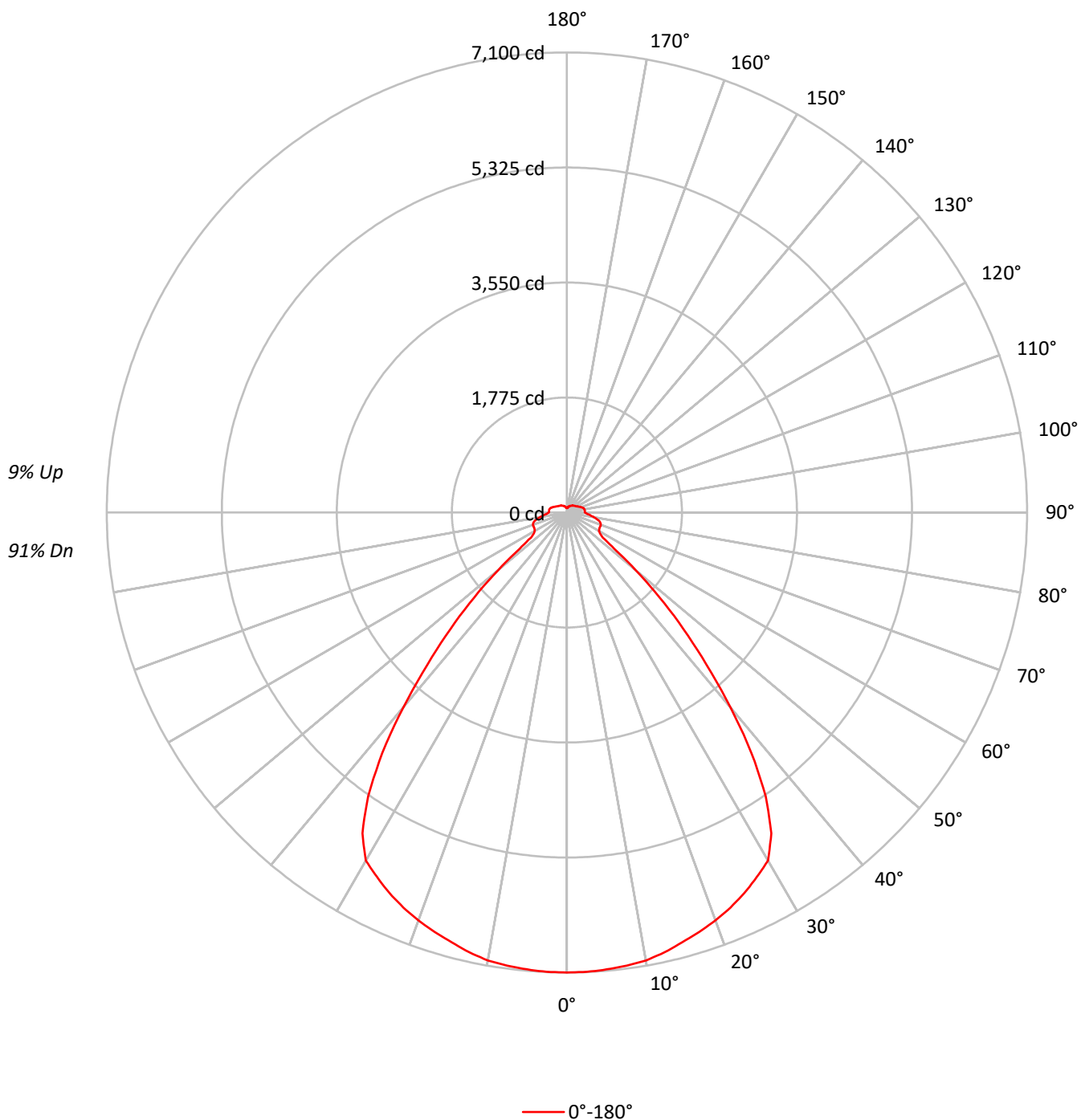
Lumens per Lamp: N/A
Luminaire Lumens: 14230.1 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.18
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')
CIE Type: Direct

Input Watts (W): 97.6
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°	57491
5°	55169
10°	53131
15°	50903
20°	48995
25°	47133
30°	45225
35°	39373
40°	29432
45°	19525
50°	11073
55°	5626
60°	5016
65°	5206
70°	5624
75°	5737
80°	5243
85°	4661

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19525 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	673.9	4.7
10°-20°	1942.0	13.6
20°-30°	2987.1	21.0
30°-40°	3263.7	22.9
40°-50°	1971.7	13.9
50°-60°	708.2	5.0
60°-70°	556.0	3.9
70°-80°	536.1	3.8
80°-90°	369.3	2.6
90°-100°	301.4	2.1
100°-110°	275.9	1.9
110°-120°	209.5	1.5
120°-130°	154.3	1.1
130°-140°	115.3	0.8
140°-150°	81.3	0.6
150°-160°	51.7	0.4
160°-170°	25.8	0.2
170°-180°	6.7	0.0
0°-30°	5603.0	39.4
0°-40°	8866.7	62.3
0°-60°	11546.6	81.1
0°-90°	13008.0	91.4
90°-120°	786.8	5.5
90°-150°	1137.8	8.0
90°-180°	1222.0	8.6
0°-180°	14230.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7100	
5°	7078	674
15°	6869	1942
25°	6479	2987
35°	5348	3264
45°	2540	1972
55°	677	708
65°	557	556
75°	518	536
85°	331	290
90°	278	155
95°	276	226
105°	264	276
115°	210	210
125°	171	154
135°	149	115
145°	129	81
155°	111	52
165°	90	26
175°	68	7
180°	67	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	7100.2
2.5°	7095.8
5°	7078.1
7.5°	7055.0
10°	7019.7
12.5°	6953.5
15°	6868.6
17.5°	6788.1
20°	6698.8
22.5°	6598.5
25°	6479.4
27.5°	6343.8
30°	6203.7
32.5°	5870.7
35°	5348.0
37.5°	4677.6
40°	3927.8
42.5°	3182.4
45°	2539.5
47.5°	1939.6
50°	1391.6
52.5°	918.5
55°	677.0
57.5°	608.7
60°	572.3
62.5°	561.3
65°	556.9
67.5°	558.0
70°	556.9
72.5°	544.7
75°	518.3
77.5°	475.3
80°	424.5
82.5°	374.9
85°	330.8
87.5°	297.7
90°	277.9
92.5°	275.7
95°	275.7
97.5°	276.8
100°	275.7
102.5°	271.3
105°	263.5
107.5°	251.4
110°	237.1

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	223.8
115°	209.5
117.5°	197.4
120°	187.5
122.5°	178.6
125°	170.9
127.5°	164.3
130°	158.8
132.5°	153.3
135°	148.9
137.5°	143.3
140°	138.9
142.5°	133.4
145°	129.0
147.5°	124.6
150°	120.2
152.5°	115.8
155°	111.4
157.5°	107.0
160°	101.4
162.5°	95.9
165°	90.4
167.5°	83.8
170°	77.2
172.5°	68.4
175°	68.4
177.5°	67.3
180°	67.3

(END OF REPORT)