

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: P980644

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

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980644
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-6500K-FRR6
Description: UHBS2 LED High Bay at 6500K and LOW lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

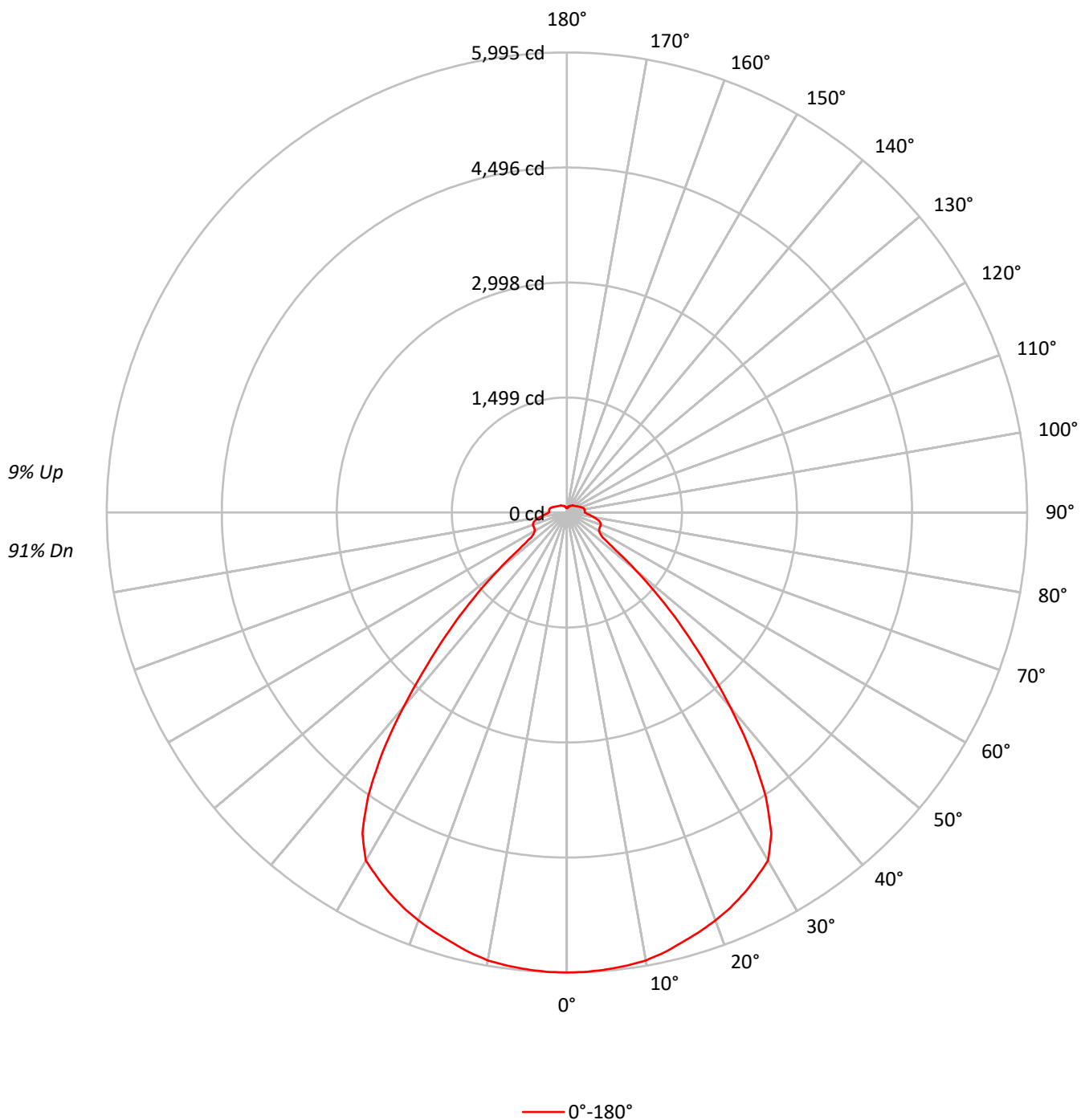
Lumens per Lamp: N/A
Luminaire Lumens: 12015.1 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.18
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')
CIE Type: Direct

Input Watts (W): 80.4
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

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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°	48542
5°	46582
10°	44861
15°	42980
20°	41369
25°	39796
30°	38186
35°	33244
40°	24851
45°	16486
50°	9349
55°	4751
60°	4235
65°	4396
70°	4748
75°	4844
80°	4428
85°	3936

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16486 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.0	4.7
10°-20°	1639.7	13.6
20°-30°	2522.2	21.0
30°-40°	2755.7	22.9
40°-50°	1664.8	13.9
50°-60°	598.0	5.0
60°-70°	469.4	3.9
70°-80°	452.7	3.8
80°-90°	311.8	2.6
90°-100°	254.5	2.1
100°-110°	232.9	1.9
110°-120°	176.9	1.5
120°-130°	130.3	1.1
130°-140°	97.3	0.8
140°-150°	68.7	0.6
150°-160°	43.7	0.4
160°-170°	21.8	0.2
170°-180°	5.7	0.0
0°-30°	4730.9	39.4
0°-40°	7486.6	62.3
0°-60°	9749.4	81.1
0°-90°	10983.3	91.4
90°-120°	664.4	5.5
90°-150°	960.7	8.0
90°-180°	1032.0	8.6
0°-180°	12015.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5995	
5°	5976	569
15°	5800	1640
25°	5471	2522
35°	4516	2756
45°	2144	1665
55°	572	598
65°	470	469
75°	438	453
85°	279	245
90°	235	131
95°	233	190
105°	222	233
115°	177	177
125°	144	130
135°	126	97
145°	109	69
155°	94	44
165°	76	22
175°	58	6
180°	57	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5995.0
2.5°	5991.3
5°	5976.4
7.5°	5956.8
10°	5927.0
12.5°	5871.2
15°	5799.5
17.5°	5731.5
20°	5656.1
22.5°	5571.4
25°	5470.8
27.5°	5356.3
30°	5238.1
32.5°	4956.9
35°	4515.6
37.5°	3949.5
40°	3316.4
42.5°	2687.0
45°	2144.2
47.5°	1637.7
50°	1175.0
52.5°	775.6
55°	571.7
57.5°	513.9
60°	483.2
62.5°	473.9
65°	470.2
67.5°	471.1
70°	470.2
72.5°	459.9
75°	437.6
77.5°	401.3
80°	358.5
82.5°	316.6
85°	279.3
87.5°	251.4
90°	234.6
92.5°	232.8
95°	232.8
97.5°	233.7
100°	232.8
102.5°	229.0
105°	222.5
107.5°	212.3
110°	200.2



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	189.0
115°	176.9
117.5°	166.7
120°	158.3
122.5°	150.8
125°	144.3
127.5°	138.7
130°	134.1
132.5°	129.4
135°	125.7
137.5°	121.0
140°	117.3
142.5°	112.7
145°	108.9
147.5°	105.2
150°	101.5
152.5°	97.8
155°	94.0
157.5°	90.3
160°	85.7
162.5°	81.0
165°	76.3
167.5°	70.8
170°	65.2
172.5°	57.7
175°	57.7
177.5°	56.8
180°	56.8

(END OF REPORT)