

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: P980588

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

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-9)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-N-L83065-HIGH-3500K-FRR6
Description: UHBS2 LED High Bay at 3500K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

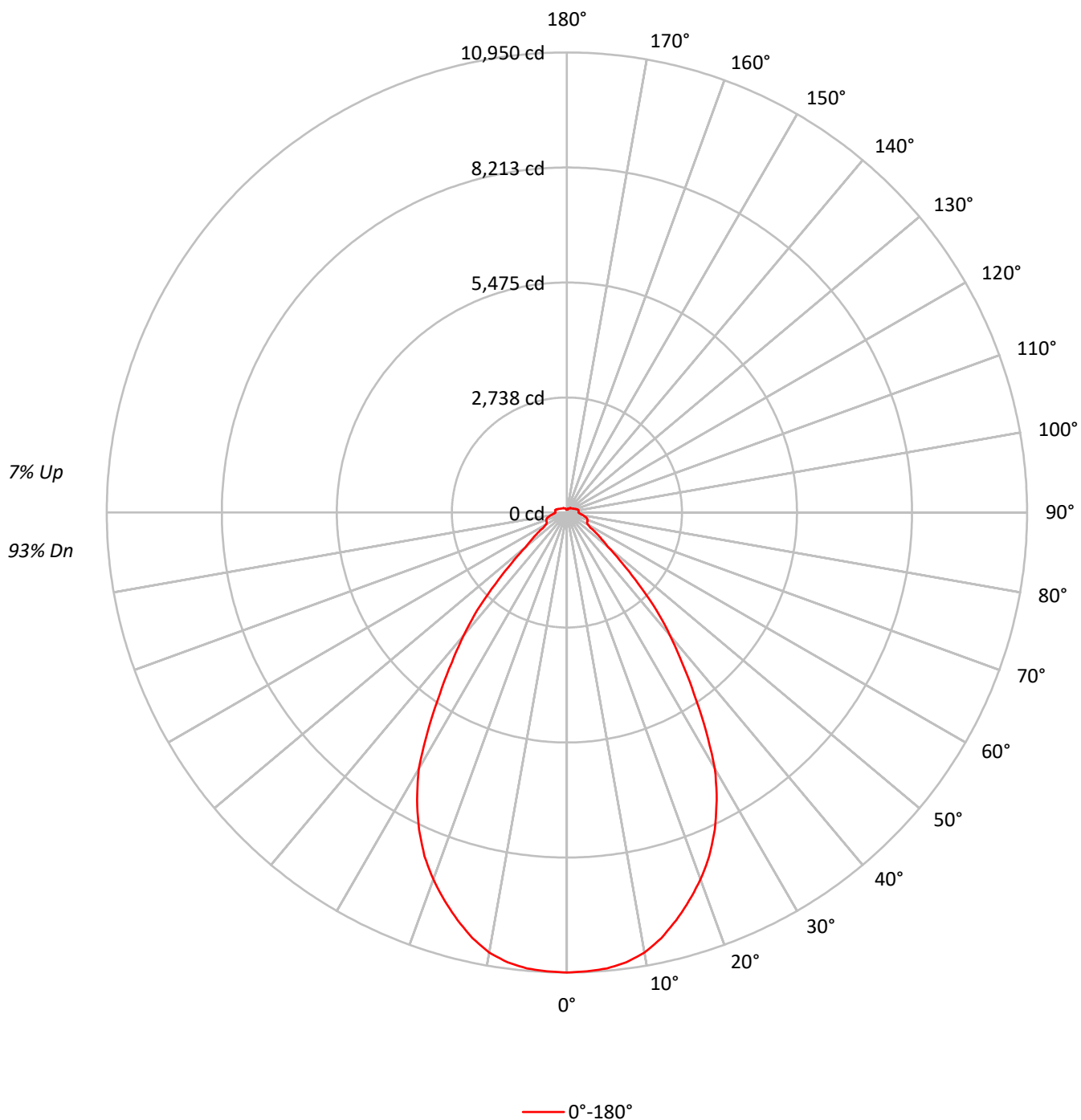
Lumens per Lamp: N/A
Luminaire Lumens: 16213.0 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')
CIE Type: Direct

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

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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	114	114	114	114	107	107	107	101	101	101	95	95	95
1	109	105	102	99	106	102	99	97	97	94	92	92	90	88	87	86	84
2	102	95	90	85	99	93	88	84	88	84	81	84	81	78	80	78	75
3	95	87	80	75	92	85	79	74	81	76	72	77	73	70	74	71	68
4	89	79	72	67	86	78	71	66	74	69	65	71	67	63	69	65	62
5	83	73	66	60	81	71	65	60	69	63	58	66	61	57	64	59	56
6	78	67	60	55	76	66	59	54	64	58	53	61	56	52	59	55	51
7	73	62	55	50	71	61	54	50	59	53	49	57	52	48	55	51	47
8	69	58	51	46	67	57	50	46	55	49	45	53	48	44	52	47	44
9	65	54	47	42	64	53	47	42	52	46	42	50	45	41	49	44	40
10	62	50	44	39	60	50	43	39	48	43	39	47	42	38	46	41	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	88659
5°	84901
10°	80497
15°	74468
20°	67982
25°	60563
30°	51368
35°	38835
40°	28588
45°	18507
50°	10212
55°	7005
60°	5037
65°	4942
70°	5296
75°	5296
80°	4821
85°	4430

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18507 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1031.7	6.4
10°-20°	2820.2	17.4
20°-30°	3796.1	23.4
30°-40°	3313.8	20.4
40°-50°	1890.0	11.7
50°-60°	772.9	4.8
60°-70°	533.0	3.3
70°-80°	496.8	3.1
80°-90°	349.9	2.2
90°-100°	304.6	1.9
100°-110°	279.1	1.7
110°-120°	204.7	1.3
120°-130°	148.1	0.9
130°-140°	110.8	0.7
140°-150°	78.9	0.5
150°-160°	50.3	0.3
160°-170°	25.3	0.2
170°-180°	6.7	0.0
0°-30°	7648.1	47.2
0°-40°	10961.8	67.6
0°-60°	13624.7	84.0
0°-90°	15004.4	92.5
90°-120°	788.4	4.9
90°-150°	1126.2	6.9
90°-180°	1209.0	7.5
0°-180°	16213.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10950	
5°	10893	###
15°	10048	2820
25°	8326	3796
35°	5275	3314
45°	2407	1890
55°	843	773
65°	529	533
75°	478	497
85°	314	273
90°	274	152
95°	279	229
105°	267	279
115°	205	205
125°	164	148
135°	142	111
145°	125	79
155°	108	50
165°	90	25
175°	69	7
180°	68	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	10949.6
2.5°	10932.0
5°	10892.7
7.5°	10800.5
10°	10635.2
12.5°	10377.6
15°	10048.3
17.5°	9682.4
20°	9294.7
22.5°	8852.9
25°	8325.7
27.5°	7719.9
30°	7046.3
32.5°	6150.4
35°	5274.9
37.5°	4498.3
40°	3815.2
42.5°	3159.2
45°	2407.0
47.5°	1789.0
50°	1283.5
52.5°	1049.0
55°	843.0
57.5°	653.3
60°	574.7
62.5°	540.8
65°	528.6
67.5°	529.9
70°	524.5
72.5°	508.2
75°	478.4
77.5°	436.4
80°	390.3
82.5°	349.7
85°	314.4
87.5°	287.3
90°	273.8
92.5°	276.5
95°	279.2
97.5°	283.3
100°	281.9
102.5°	276.5
105°	267.0
107.5°	252.1
110°	235.8

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	219.6
115°	204.7
117.5°	191.1
120°	180.3
122.5°	172.1
125°	164.0
127.5°	157.2
130°	151.8
132.5°	147.7
135°	142.3
137.5°	138.2
140°	134.2
142.5°	130.1
145°	124.7
147.5°	120.6
150°	116.6
152.5°	112.5
155°	108.4
157.5°	104.4
160°	98.9
162.5°	93.5
165°	89.5
167.5°	82.7
170°	75.9
172.5°	69.1
175°	69.1
177.5°	67.8
180°	67.8

(END OF REPORT)