

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: P980610

Luminaire Tested: UHBS2-1218-N-L83065-MID-4000K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980610
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-MID-4000K-FRR6
Description: UHBS2 LED High Bay at 4000K and MID lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

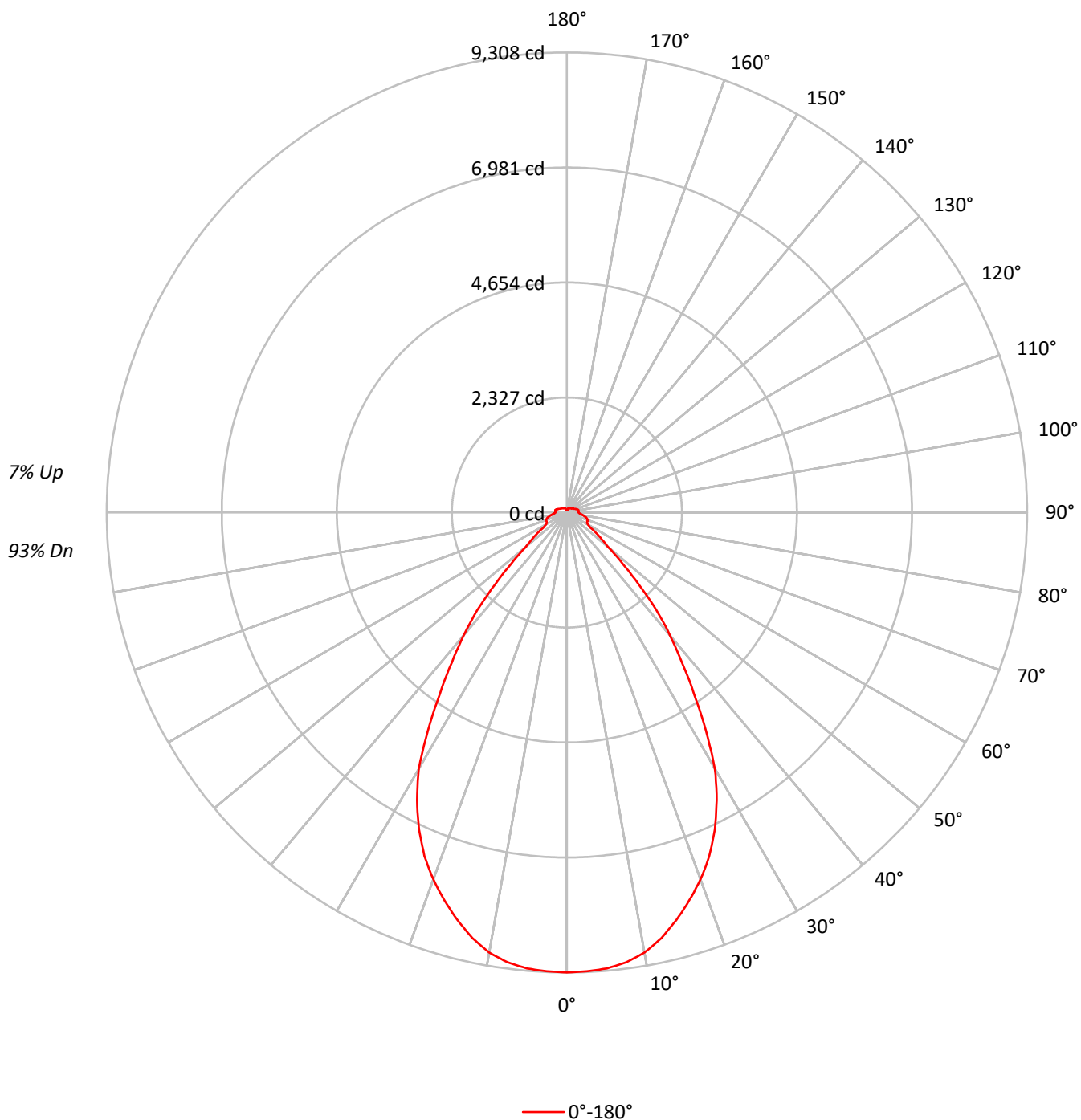
Lumens per Lamp: N/A
Luminaire Lumens: 13781.9 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')
CIE Type: Direct

Input Watts (W): 96.5
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				0
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°	75366
5°	72170
10°	68426
15°	63302
20°	57789
25°	51482
30°	43666
35°	33012
40°	24302
45°	15732
50°	8681
55°	5955
60°	4282
65°	4200
70°	4503
75°	4502
80°	4098
85°	3767

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 15732 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	877.0	6.4
10°-20°	2397.4	17.4
20°-30°	3226.9	23.4
30°-40°	2816.9	20.4
40°-50°	1606.6	11.7
50°-60°	657.0	4.8
60°-70°	453.1	3.3
70°-80°	422.3	3.1
80°-90°	297.4	2.2
90°-100°	258.9	1.9
100°-110°	237.2	1.7
110°-120°	174.0	1.3
120°-130°	125.9	0.9
130°-140°	94.2	0.7
140°-150°	67.0	0.5
150°-160°	42.8	0.3
160°-170°	21.5	0.2
170°-180°	5.7	0.0
0°-30°	6501.3	47.2
0°-40°	9318.2	67.6
0°-60°	11581.8	84.0
0°-90°	12754.6	92.5
90°-120°	670.1	4.9
90°-150°	957.2	6.9
90°-180°	1027.0	7.5
0°-180°	13781.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9308	
5°	9259	877
15°	8542	2397
25°	7077	3227
35°	4484	2817
45°	2046	1607
55°	717	657
65°	449	453
75°	407	422
85°	267	232
90°	233	129
95°	237	195
105°	227	237
115°	174	174
125°	139	126
135°	121	94
145°	106	67
155°	92	43
165°	76	22
175°	59	6
180°	58	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	9307.8
2.5°	9292.8
5°	9259.4
7.5°	9181.1
10°	9040.5
12.5°	8821.6
15°	8541.6
17.5°	8230.6
20°	7901.1
22.5°	7525.5
25°	7077.3
27.5°	6562.3
30°	5989.8
32.5°	5228.2
35°	4484.0
37.5°	3823.8
40°	3243.2
42.5°	2685.5
45°	2046.1
47.5°	1520.8
50°	1091.0
52.5°	891.7
55°	716.6
57.5°	555.3
60°	488.5
62.5°	459.7
65°	449.3
67.5°	450.5
70°	445.9
72.5°	432.0
75°	406.7
77.5°	371.0
80°	331.8
82.5°	297.2
85°	267.3
87.5°	244.2
90°	232.7
92.5°	235.0
95°	237.3
97.5°	240.8
100°	239.6
102.5°	235.0
105°	227.0
107.5°	214.3
110°	200.5



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	186.6
115°	174.0
117.5°	162.4
120°	153.2
122.5°	146.3
125°	139.4
127.5°	133.6
130°	129.0
132.5°	125.6
135°	121.0
137.5°	117.5
140°	114.1
142.5°	110.6
145°	106.0
147.5°	102.5
150°	99.1
152.5°	95.6
155°	92.2
157.5°	88.7
160°	84.1
162.5°	79.5
165°	76.0
167.5°	70.3
170°	64.5
172.5°	58.8
175°	58.8
177.5°	57.6
180°	57.6

(END OF REPORT)