

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: P980574

Luminaire Tested: UHBS2-1218-M-L83065-MID-3500K-FRR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-M-L83065-MID-3500K-FRR3
Description: UHBS2 LED High Bay at 3500K and MID lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

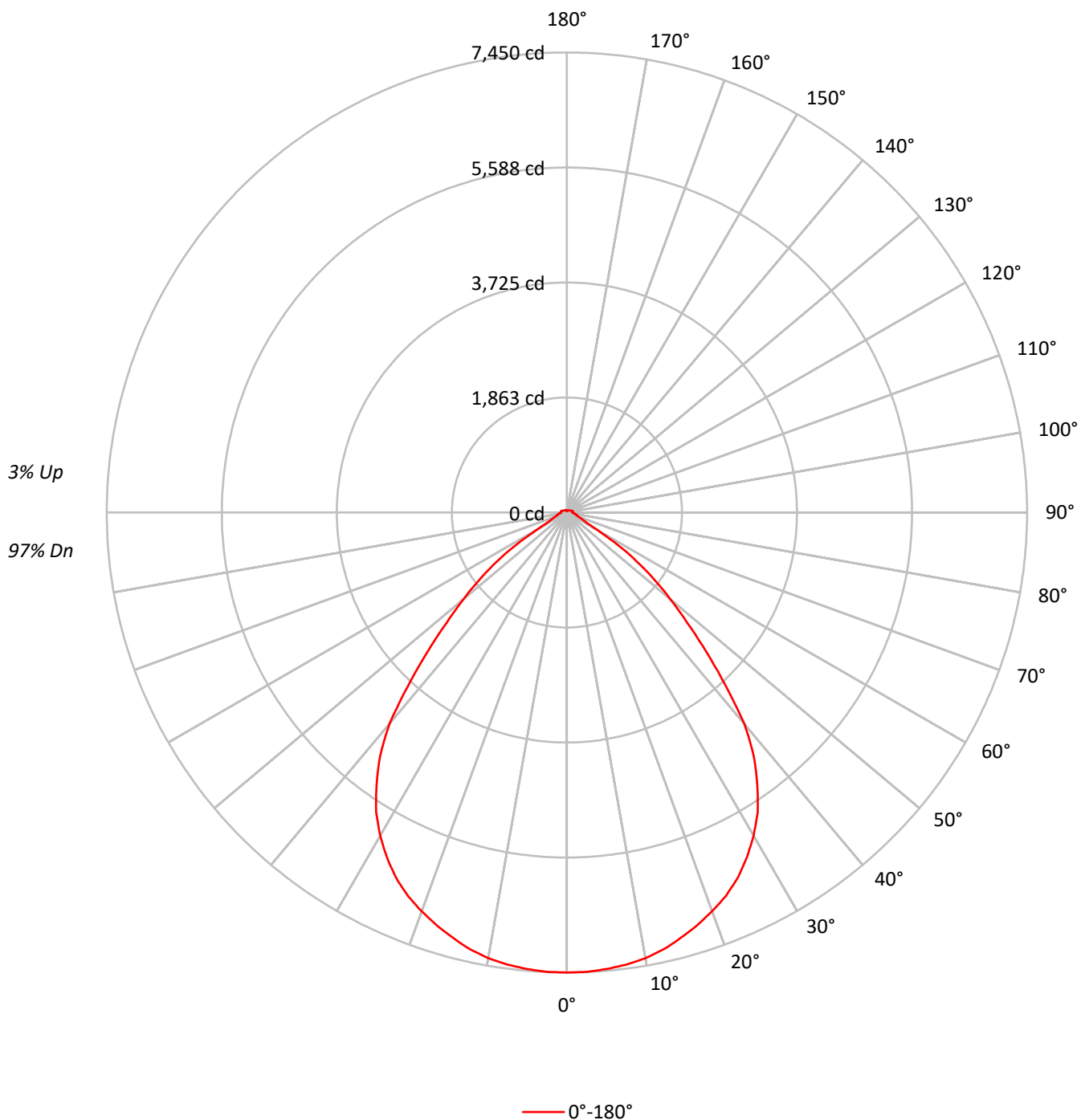
Lumens per Lamp: N/A
Luminaire Lumens: 13789.0 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 0.25')
CIE Type: Direct

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	30	10
RCR																	
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99
1	111	107	104	101	108	105	102	99	100	98	96	96	94	92	92	90	89
2	103	97	92	87	101	95	90	86	91	87	84	87	84	81	84	82	79
3	96	88	81	76	94	86	80	75	83	78	74	80	76	72	77	74	71
4	89	80	73	67	87	78	72	67	76	70	65	73	68	64	71	67	63
5	83	73	65	60	81	72	65	59	69	63	59	67	62	58	65	61	57
6	78	67	59	54	76	66	58	53	64	57	53	62	56	52	60	55	51
7	73	61	54	48	71	60	53	48	59	52	48	57	51	47	55	50	47
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	51	46	42
9	64	52	45	40	63	51	45	40	50	44	40	49	43	39	48	43	39
10	60	48	41	37	59	48	41	37	47	41	36	46	40	36	45	39	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	75104
5°	73335
10°	71563
15°	69338
20°	67066
25°	64481
30°	60762
35°	55521
40°	47868
45°	35667
50°	25878
55°	17471
60°	7771
65°	4401
70°	3387
75°	3112
80°	3087
85°	3138

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 35667 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	705.5	5.1
10°-20°	2012.0	14.6
20°-30°	2999.7	21.8
30°-40°	3333.5	24.2
40°-50°	2484.0	18.0
50°-60°	1224.3	8.9
60°-70°	315.4	2.3
70°-80°	173.4	1.3
80°-90°	122.7	0.9
90°-100°	104.2	0.8
100°-110°	98.3	0.7
110°-120°	70.8	0.5
120°-130°	50.4	0.4
130°-140°	37.8	0.3
140°-150°	27.5	0.2
150°-160°	17.8	0.1
160°-170°	9.1	0.1
170°-180°	2.5	0.0
0°-30°	5717.2	41.5
0°-40°	9050.7	65.6
0°-60°	12759.0	92.5
0°-90°	13370.5	97.0
90°-120°	273.4	2.0
90°-150°	389.1	2.8
90°-180°	419.0	3.0
0°-180°	13789.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7450	
5°	7420	705
15°	7130	2012
25°	6535	3000
35°	5374	3334
45°	3185	2484
55°	1382	1224
65°	292	315
75°	161	173
85°	112	96
90°	91	52
95°	96	79
105°	94	98
115°	71	71
125°	56	50
135°	48	38
145°	44	28
155°	39	18
165°	32	9
175°	25	2
180°	25	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	7450.4
2.5°	7445.0
5°	7420.3
7.5°	7383.7
10°	7327.8
12.5°	7246.1
15°	7130.0
17.5°	7009.5
20°	6873.0
22.5°	6721.4
25°	6535.3
27.5°	6305.2
30°	6042.9
32.5°	5749.3
35°	5374.1
37.5°	4967.6
40°	4470.9
42.5°	3802.1
45°	3184.9
47.5°	2639.7
50°	2187.0
52.5°	1781.7
55°	1381.7
57.5°	979.5
60°	567.7
62.5°	361.3
65°	292.5
67.5°	240.9
70°	201.1
72.5°	179.6
75°	161.3
77.5°	147.3
80°	135.5
82.5°	123.7
85°	111.8
87.5°	101.1
90°	91.4
92.5°	93.5
95°	95.7
97.5°	97.8
100°	98.9
102.5°	97.8
105°	93.5
107.5°	89.2
110°	82.8



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	76.3
115°	71.0
117.5°	65.6
120°	61.3
122.5°	58.1
125°	55.9
127.5°	53.8
130°	51.6
132.5°	50.5
135°	48.4
137.5°	47.3
140°	46.2
142.5°	45.2
145°	44.1
147.5°	41.9
150°	40.9
152.5°	39.8
155°	38.7
157.5°	36.6
160°	35.5
162.5°	33.3
165°	32.3
167.5°	30.1
170°	28.0
172.5°	25.8
175°	24.7
177.5°	25.8
180°	24.7

(END OF REPORT)