

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: P980714

Luminaire Tested: UHBS2-2436-N-L83065-HIGH-6500K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980714
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: UHBS2-2436-N-L83065-HIGH-6500K-FRR6
Description: UHBS2 LED High Bay at 6500K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

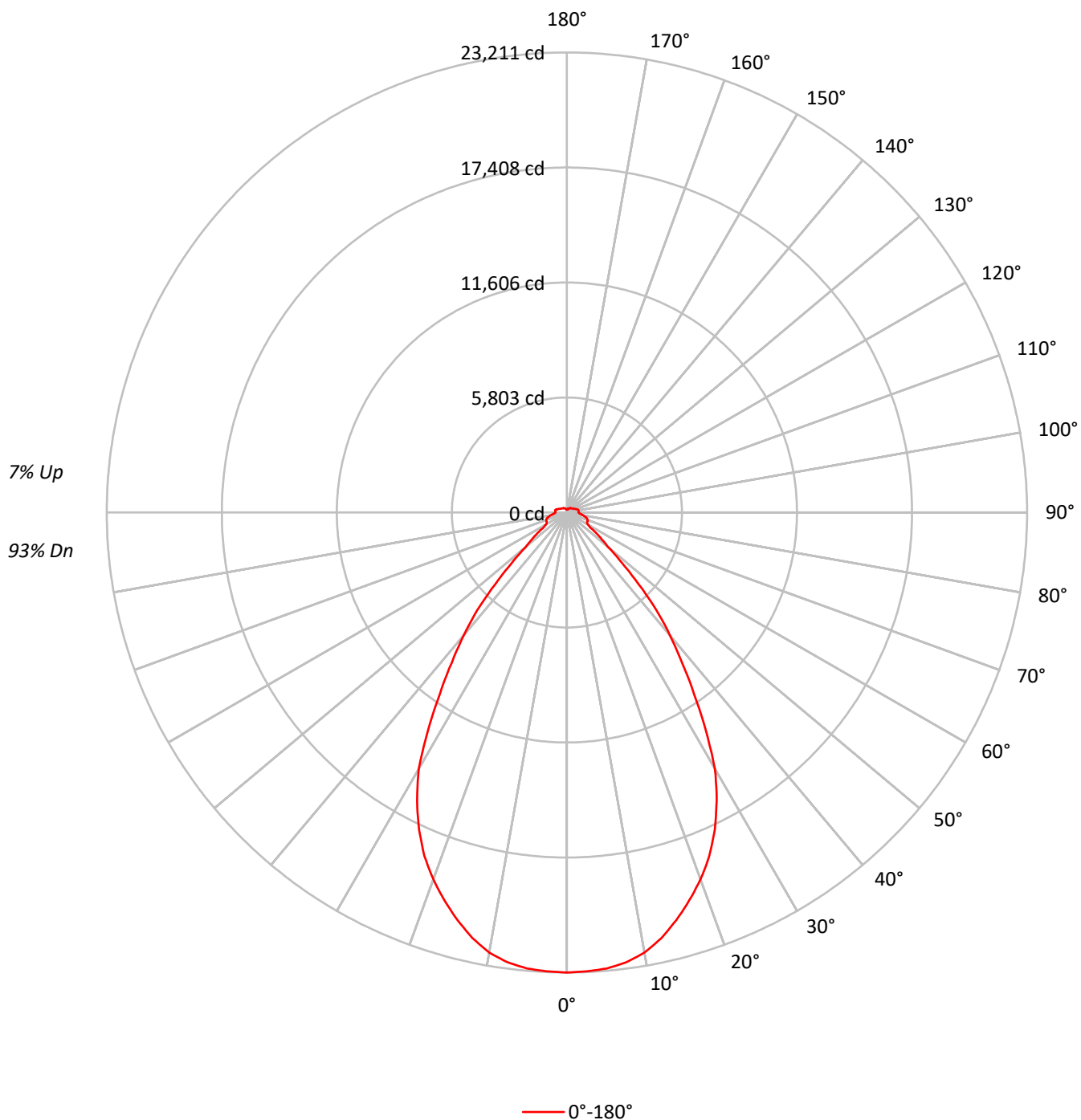
Lumens per Lamp: N/A
Luminaire Lumens: 34368.0 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

Input Watts (W): 239.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.999
Total Harmonic Distortion (THDi): 5.15
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	114	114	114	114	107	107	107		101	101	101		95
1	109	105	102	99	106	102	99	97	97	94	92		92	90	88		87
2	102	95	90	85	99	93	88	84	88	84	81		84	81	78		80
3	95	87	80	75	92	85	79	74	81	76	72		77	73	70		74
4	89	79	72	67	86	78	71	66	74	69	65		71	67	63		69
5	83	73	66	60	81	71	65	60	69	63	58		66	61	57		64
6	78	67	60	55	76	66	59	54	64	58	53		61	56	52		59
7	73	62	55	50	71	61	54	50	59	53	49		57	52	48		55
8	69	58	51	46	67	57	50	46	55	49	45		53	48	44		52
9	65	54	47	42	64	53	47	42	52	46	42		50	45	41		49
10	62	50	44	39	60	50	43	39	48	43	39		47	42	38		46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	146809
5°	141259
10°	134534
15°	124993
20°	114583
25°	102498
30°	87293
35°	66270
40°	48995
45°	31861
50°	17666
55°	12182
60°	8810
65°	8700
70°	9396
75°	9481
80°	8729
85°	8138

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 31861 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2187.1	6.4
10°-20°	5978.3	17.4
20°-30°	8046.9	23.4
30°-40°	7024.5	20.4
40°-50°	4006.4	11.7
50°-60°	1638.4	4.8
60°-70°	1129.8	3.3
70°-80°	1053.2	3.1
80°-90°	741.8	2.2
90°-100°	645.7	1.9
100°-110°	591.6	1.7
110°-120°	433.9	1.3
120°-130°	314.0	0.9
130°-140°	234.9	0.7
140°-150°	167.2	0.5
150°-160°	106.7	0.3
160°-170°	53.7	0.2
170°-180°	14.2	0.0
0°-30°	16212.2	47.2
0°-40°	23236.7	67.6
0°-60°	28881.4	84.0
0°-90°	31806.1	92.5
90°-120°	1671.1	4.9
90°-150°	2387.2	6.9
90°-180°	2562.0	7.5
0°-180°	34368.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	23211	
5°	23090	###
15°	21300	5978
25°	17649	8047
35°	11182	7024
45°	5102	4006
55°	1787	1638
65°	1120	1130
75°	1014	1053
85°	666	579
90°	580	323
95°	592	486
105°	566	592
115°	434	434
125°	348	314
135°	302	235
145°	264	167
155°	230	107
165°	190	54
175°	146	14
180°	144	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	23210.7
2.5°	23173.4
5°	23090.1
7.5°	22894.7
10°	22544.2
12.5°	21998.3
15°	21300.2
17.5°	20524.5
20°	19702.8
22.5°	18766.2
25°	17648.7
27.5°	16364.4
30°	14936.6
32.5°	13037.5
35°	11181.6
37.5°	9535.4
40°	8087.4
42.5°	6696.9
45°	5102.4
47.5°	3792.3
50°	2720.7
52.5°	2223.7
55°	1787.0
57.5°	1384.8
60°	1218.1
62.5°	1146.3
65°	1120.5
67.5°	1123.3
70°	1111.8
72.5°	1077.4
75°	1014.2
77.5°	925.1
80°	827.4
82.5°	741.2
85°	666.5
87.5°	609.1
90°	580.3
92.5°	586.1
95°	591.8
97.5°	600.5
100°	597.6
102.5°	586.1
105°	566.0
107.5°	534.4
110°	499.9

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	465.4
115°	433.8
117.5°	405.1
120°	382.1
122.5°	364.9
125°	347.6
127.5°	333.3
130°	321.8
132.5°	313.2
135°	301.7
137.5°	293.0
140°	284.4
142.5°	275.8
145°	264.3
147.5°	255.7
150°	247.1
152.5°	238.5
155°	229.8
157.5°	221.2
160°	209.7
162.5°	198.2
165°	189.6
167.5°	175.3
170°	160.9
172.5°	146.5
175°	146.5
177.5°	143.6
180°	143.6

(END OF REPORT)