

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: P980673

Luminaire Tested: UHBS2-2436-M-L83065-HIGH-6500K-FRR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980673
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: UHBS2-2436-M-L83065-HIGH-6500K-FRR3
Description: UHBS2 LED High Bay at 6500K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

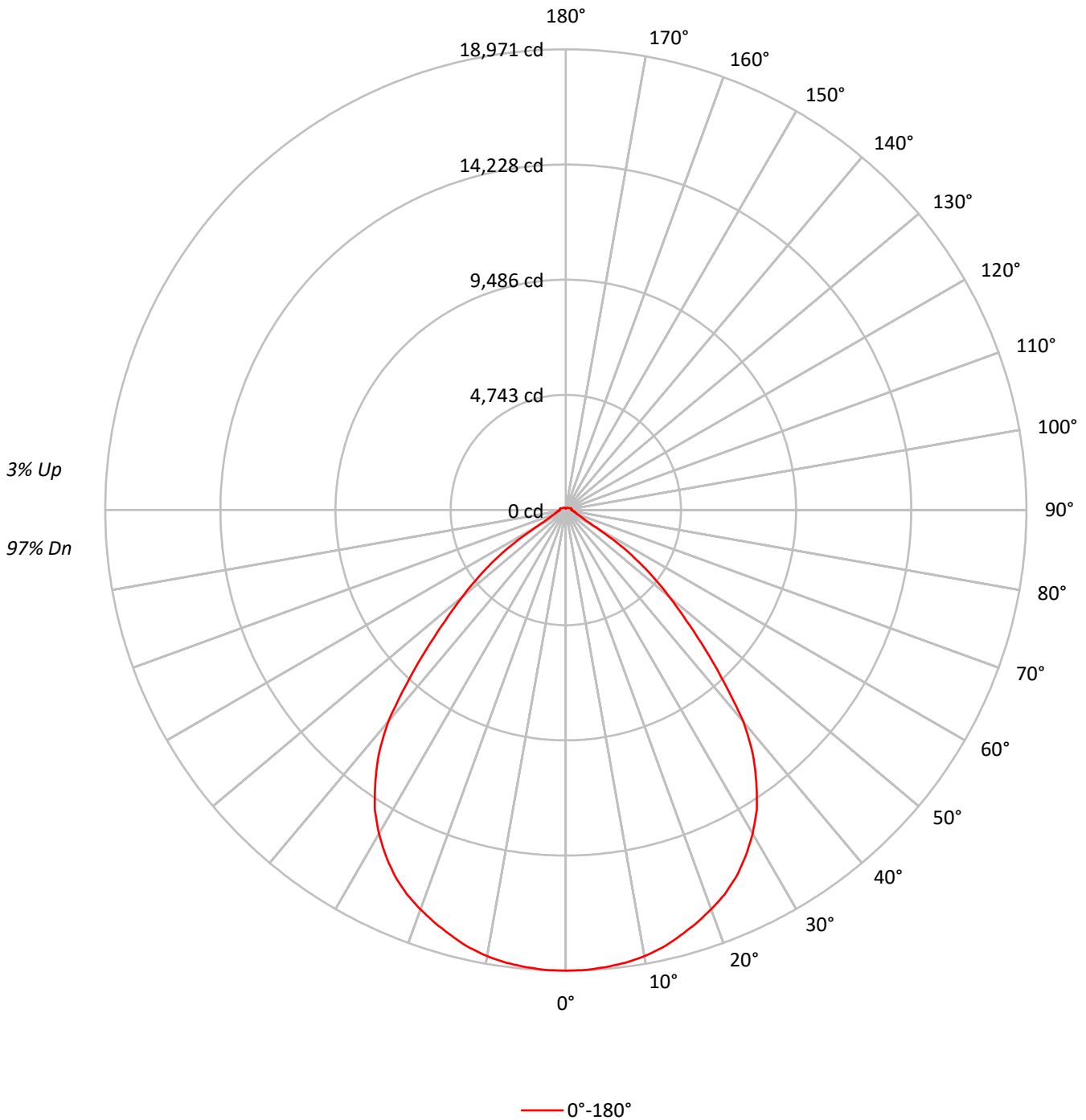
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35111.0 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Vertical Cylinder (Dia: 1.34' x H: 0.25')
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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	111	107	104	101	108	105	102	99	100	98	96	96	94	92	92	90	89	89	89	89	87
2	103	97	92	87	101	95	90	86	91	87	84	87	84	81	84	82	79	79	79	79	77
3	96	88	81	76	94	86	80	75	83	78	74	80	76	72	77	74	71	71	71	71	69
4	89	80	73	67	87	78	72	67	76	70	65	73	68	64	71	67	63	63	63	63	61
5	83	73	65	60	81	72	65	59	69	63	59	67	62	58	65	61	57	57	57	57	55
6	78	67	59	54	76	66	58	53	64	57	53	62	56	52	60	55	51	51	51	51	50
7	73	61	54	48	71	60	53	48	59	52	48	57	51	47	55	50	47	47	47	47	45
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	51	46	42	42	42	42	41
9	64	52	45	40	63	51	45	40	50	44	40	49	43	39	48	43	39	39	39	39	37
10	60	48	41	37	59	48	41	37	47	41	36	46	40	36	45	39	36	36	36	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	145447
5°	142446
10°	139409
15°	135461
20°	131400
25°	126707
30°	119759
35°	109776
40°	94966
45°	71021
50°	51742
55°	35094
60°	15695
65°	8944
70°	6939
75°	6442
80°	6481
85°	6730

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 71021 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1796.3	5.1
10°-20°	5123.3	14.6
20°-30°	7638.1	21.8
30°-40°	8488.1	24.2
40°-50°	6325.1	18.0
50°-60°	3117.5	8.9
60°-70°	803.0	2.3
70°-80°	441.4	1.3
80°-90°	312.4	0.9
90°-100°	265.5	0.8
100°-110°	250.3	0.7
110°-120°	180.4	0.5
120°-130°	128.2	0.4
130°-140°	96.4	0.3
140°-150°	70.1	0.2
150°-160°	45.4	0.1
160°-170°	23.3	0.1
170°-180°	6.3	0.0
0°-30°	14557.7	41.5
0°-40°	23045.8	65.6
0°-60°	32488.4	92.5
0°-90°	34045.2	97.0
90°-120°	696.2	2.0
90°-150°	990.8	2.8
90°-180°	1066.0	3.0
0°-180°	35111.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18971	
5°	18894	###
15°	18155	5123
25°	16641	7638
35°	13684	8488
45°	8110	6325
55°	3518	3117
65°	745	803
75°	411	441
85°	285	245
90°	233	132
95°	244	201
105°	238	250
115°	181	180
125°	142	128
135°	123	96
145°	112	70
155°	99	45
165°	82	23
175°	63	6
180°	63	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	18970.9
2.5°	18957.2
5°	18894.3
7.5°	18801.2
10°	18658.8
12.5°	18450.7
15°	18155.0
17.5°	17848.4
20°	17500.7
22.5°	17114.6
25°	16641.0
27.5°	16055.1
30°	15387.0
32.5°	14639.6
35°	13684.0
37.5°	12649.1
40°	11384.2
42.5°	9681.2
45°	8109.7
47.5°	6721.6
50°	5568.9
52.5°	4536.7
55°	3518.2
57.5°	2494.2
60°	1445.6
62.5°	919.9
65°	744.7
67.5°	613.3
70°	512.0
72.5°	457.2
75°	410.7
77.5°	375.1
80°	345.0
82.5°	314.9
85°	284.7
87.5°	257.4
90°	232.7
92.5°	238.2
95°	243.7
97.5°	249.1
100°	251.9
102.5°	249.1
105°	238.2
107.5°	227.2
110°	210.8



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	194.4
115°	180.7
117.5°	167.0
120°	156.1
122.5°	147.8
125°	142.4
127.5°	136.9
130°	131.4
132.5°	128.7
135°	123.2
137.5°	120.5
140°	117.7
142.5°	115.0
145°	112.3
147.5°	106.8
150°	104.0
152.5°	101.3
155°	98.6
157.5°	93.1
160°	90.4
162.5°	84.9
165°	82.1
167.5°	76.7
170°	71.2
172.5°	65.7
175°	63.0
177.5°	65.7
180°	63.0

(END OF REPORT)