

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: P980778

Luminaire Tested: UHBS2-2436-W-L83065-MID-6500K-FRR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-4)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-2436-W-L83065-MID-6500K-FRR3
Description: UHBS2 LED High Bay at 6500K and MID lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

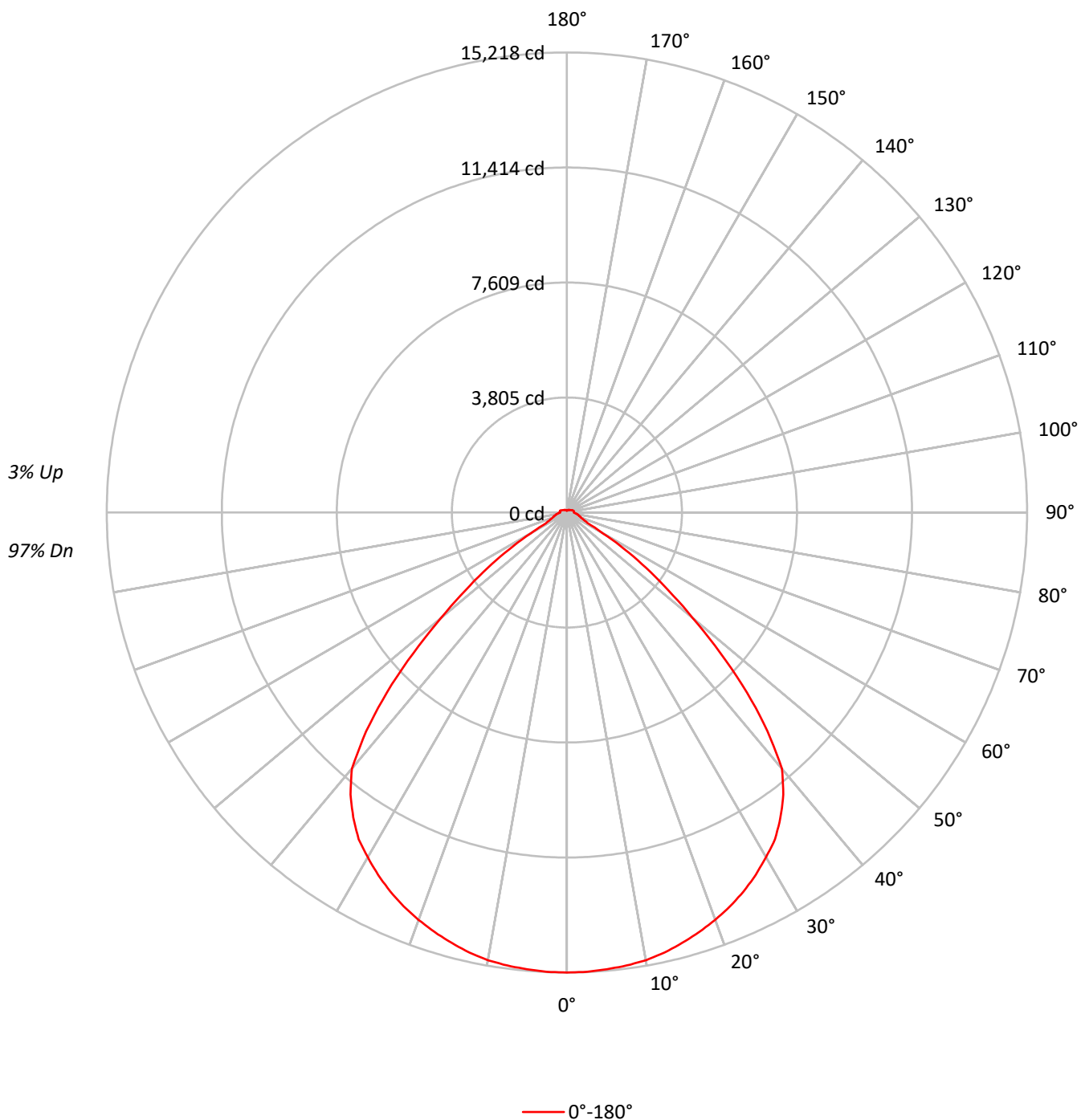
Lumens per Lamp: N/A
Luminaire Lumens: 31477.0 lumens
Efficiency: N/A
Efficacy: 161.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.31
Luminous Opening: Vertical Cylinder (Dia: 1.34' x H: 0.25')
CIE Type: Direct

Input Watts (W): 195
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.998
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	118	118	118	118	115	115	115	115	109	109	109		104	104	104		99
1	111	107	104	101	108	104	101	99	100	97	95		95	93	92		91
2	103	96	91	86	100	94	89	85	90	86	83		87	83	80		83
3	95	87	80	75	93	85	79	74	82	77	73		79	75	71		76
4	89	79	72	66	86	77	71	65	75	69	64		72	67	63		70
5	82	72	64	58	80	70	63	58	68	62	57		66	60	56		64
6	77	65	58	52	75	64	57	52	62	56	51		60	55	50		59
7	72	60	52	47	70	59	52	46	57	51	46		56	50	45		54
8	67	55	47	42	65	54	47	42	53	46	42		51	45	41		50
9	63	51	43	38	61	50	43	38	49	42	38		47	42	38		46
10	59	47	40	35	58	46	40	35	45	39	35		44	38	34		43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	116676
5°	114336
10°	112347
15°	109987
20°	107669
25°	105317
30°	102490
35°	98784
40°	92290
45°	73754
50°	50399
55°	31922
60°	15027
65°	7967
70°	6823
75°	6626
80°	6635
85°	6770

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 73754 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1443.8	4.6
10°-20°	4163.5	13.2
20°-30°	6371.8	20.2
30°-40°	7669.3	24.4
40°-50°	6401.7	20.3
50°-60°	2900.7	9.2
60°-70°	736.5	2.3
70°-80°	448.5	1.4
80°-90°	313.0	1.0
90°-100°	252.5	0.8
100°-110°	238.1	0.8
110°-120°	177.1	0.6
120°-130°	126.3	0.4
130°-140°	94.9	0.3
140°-150°	68.0	0.2
150°-160°	43.5	0.1
160°-170°	21.9	0.1
170°-180°	5.8	0.0
0°-30°	11979.1	38.1
0°-40°	19648.4	62.4
0°-60°	28950.9	92.0
0°-90°	30448.8	96.7
90°-120°	667.7	2.1
90°-150°	956.9	3.0
90°-180°	1028.0	3.3
0°-180°	31477.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15218	
5°	15166	###
15°	14741	4163
25°	13832	6372
35°	12314	7669
45°	8422	6402
55°	3200	2901
65°	663	737
75°	422	448
85°	286	248
90°	224	127
95°	232	191
105°	227	238
115°	177	177
125°	141	126
135°	122	95
145°	107	68
155°	93	44
165°	76	22
175°	60	6
180°	57	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	15218.2
2.5°	15206.2
5°	15165.7
7.5°	15115.6
10°	15036.8
12.5°	14912.7
15°	14740.9
17.5°	14552.4
20°	14340.0
22.5°	14101.3
25°	13831.7
27.5°	13514.3
30°	13168.2
32.5°	12812.7
35°	12313.9
37.5°	11755.5
40°	11063.4
42.5°	9824.9
45°	8421.7
47.5°	6887.2
50°	5424.3
52.5°	4226.3
55°	3200.2
57.5°	2255.2
60°	1384.1
62.5°	806.6
65°	663.4
67.5°	572.7
70°	503.5
72.5°	460.6
75°	422.4
77.5°	386.6
80°	353.2
82.5°	319.8
85°	286.4
87.5°	253.0
90°	224.3
92.5°	226.7
95°	231.5
97.5°	236.3
100°	238.6
102.5°	233.9
105°	226.7
107.5°	217.2
110°	205.2



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	190.9
115°	176.6
117.5°	164.7
120°	155.1
122.5°	145.6
125°	140.8
127.5°	133.6
130°	128.9
132.5°	126.5
135°	121.7
137.5°	119.3
140°	114.5
142.5°	112.2
145°	107.4
147.5°	105.0
150°	100.2
152.5°	97.8
155°	93.1
157.5°	90.7
160°	85.9
162.5°	81.1
165°	76.4
167.5°	71.6
170°	66.8
172.5°	59.7
175°	59.7
177.5°	59.7
180°	57.3

(END OF REPORT)