

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: P980688

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

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980688
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-LOW-6500K-FRR3
Description: UHBS2 LED High Bay at 6500K and LOW lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

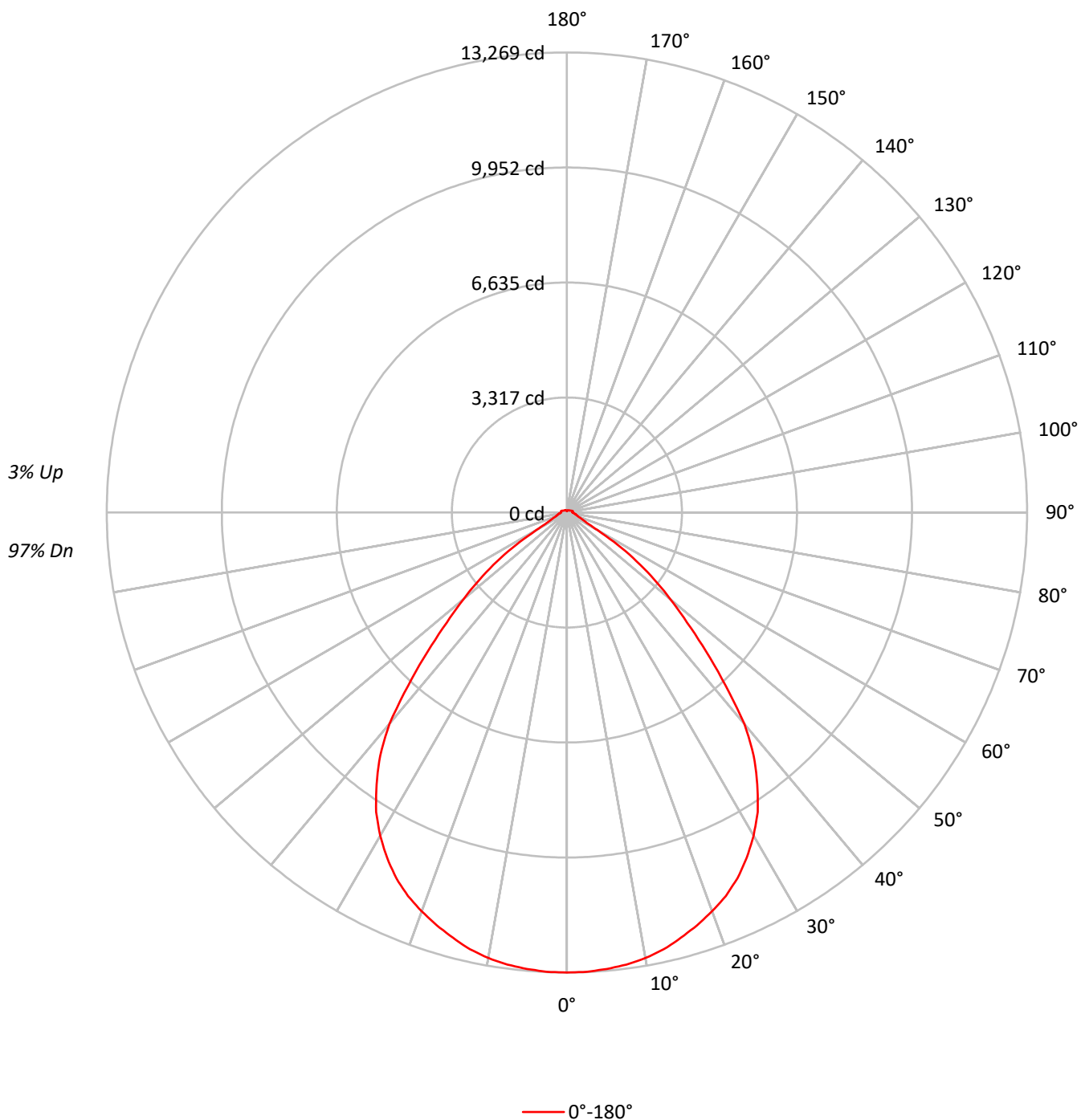
Lumens per Lamp: N/A
Luminaire Lumens: 24558.0 lumens
Efficiency: N/A
Efficacy: 159.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Vertical Cylinder (Dia: 1.34' x H: 0.25')
CIE Type: Direct

Input Watts (W): 154.2
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 5.2
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	105	102	99	100	98	96		96	94	92		92
2	103	97	92	87	101	95	90	86	91	87	84		87	84	81		84
3	96	88	81	76	94	86	80	75	83	78	74		80	76	72		77
4	89	80	73	67	87	78	72	67	76	70	65		73	68	64		71
5	83	73	65	60	81	72	65	59	69	63	59		67	62	58		65
6	78	67	59	54	76	66	58	53	64	57	53		62	56	52		60
7	73	61	54	48	71	60	53	48	59	52	48		57	51	47		55
8	68	56	49	44	67	56	49	44	54	48	43		53	47	43		51
9	64	52	45	40	63	51	45	40	50	44	40		49	43	39		48
10	60	48	41	37	59	48	41	37	47	41	36		46	40	36		45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	101732
5°	99632
10°	97508
15°	94746
20°	91907
25°	88623
30°	83764
35°	76782
40°	66423
45°	49675
50°	36191
55°	24547
60°	10977
65°	6256
70°	4853
75°	4505
80°	4533
85°	4709

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 49675 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1256.4	5.1
10°-20°	3583.4	14.6
20°-30°	5342.4	21.8
30°-40°	5936.9	24.2
40°-50°	4424.0	18.0
50°-60°	2180.5	8.9
60°-70°	561.7	2.3
70°-80°	308.7	1.3
80°-90°	218.5	0.9
90°-100°	185.7	0.8
100°-110°	175.1	0.7
110°-120°	126.2	0.5
120°-130°	89.7	0.4
130°-140°	67.4	0.3
140°-150°	49.0	0.2
150°-160°	31.7	0.1
160°-170°	16.3	0.1
170°-180°	4.4	0.0
0°-30°	10182.2	41.5
0°-40°	16119.1	65.6
0°-60°	22723.6	92.5
0°-90°	23812.6	97.0
90°-120°	487.0	2.0
90°-150°	693.1	2.8
90°-180°	745.0	3.0
0°-180°	24558.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13269	
5°	13215	###
15°	12698	3583
25°	11639	5342
35°	9571	5937
45°	5672	4424
55°	2461	2181
65°	521	562
75°	287	309
85°	199	172
90°	163	92
95°	170	141
105°	167	175
115°	126	126
125°	100	90
135°	86	67
145°	78	49
155°	69	32
165°	57	16
175°	44	4
180°	44	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	13269.0
2.5°	13259.4
5°	13215.4
7.5°	13150.3
10°	13050.7
12.5°	12905.2
15°	12698.3
17.5°	12483.9
20°	12240.7
22.5°	11970.6
25°	11639.3
27.5°	11229.5
30°	10762.3
32.5°	10239.5
35°	9571.2
37.5°	8847.3
40°	7962.6
42.5°	6771.4
45°	5672.2
47.5°	4701.3
50°	3895.1
52.5°	3173.1
55°	2460.8
57.5°	1744.6
60°	1011.1
62.5°	643.4
65°	520.9
67.5°	429.0
70°	358.1
72.5°	319.8
75°	287.2
77.5°	262.4
80°	241.3
82.5°	220.2
85°	199.2
87.5°	180.0
90°	162.8
92.5°	166.6
95°	170.4
97.5°	174.3
100°	176.2
102.5°	174.3
105°	166.6
107.5°	158.9
110°	147.5



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	136.0
115°	126.4
117.5°	116.8
120°	109.2
122.5°	103.4
125°	99.6
127.5°	95.7
130°	91.9
132.5°	90.0
135°	86.2
137.5°	84.3
140°	82.3
142.5°	80.4
145°	78.5
147.5°	74.7
150°	72.8
152.5°	70.9
155°	68.9
157.5°	65.1
160°	63.2
162.5°	59.4
165°	57.4
167.5°	53.6
170°	49.8
172.5°	46.0
175°	44.0
177.5°	46.0
180°	44.0

(END OF REPORT)