

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: P980770

Luminaire Tested: UHBS2-2436-W-L83065-MID-3500K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980770
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-2436-W-L83065-MID-3500K-FRR6
Description: UHBS2 LED High Bay at 3500K and MID lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

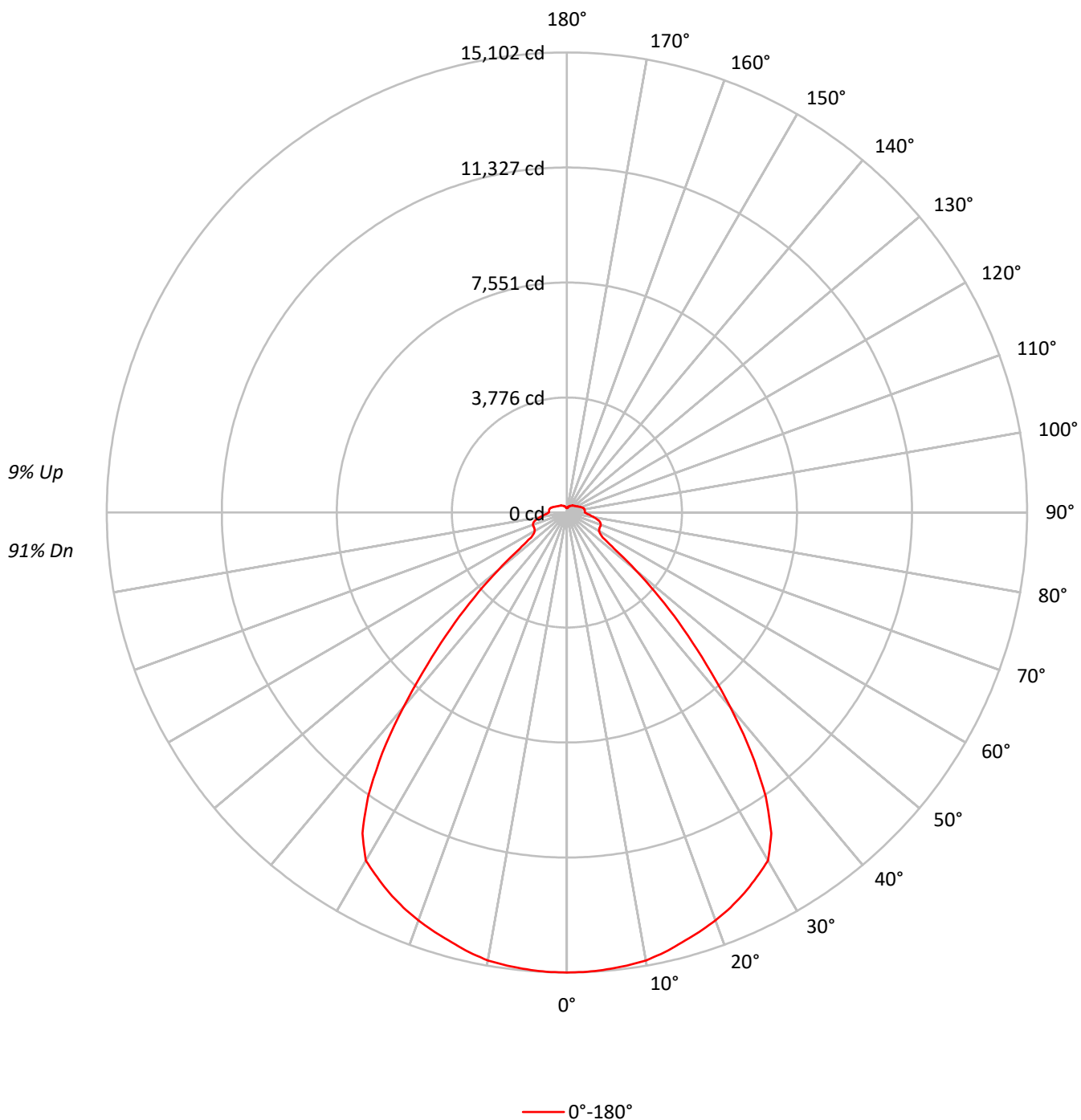
Lumens per Lamp: N/A
Luminaire Lumens: 30268.0 lumens
Efficiency: N/A
Efficacy: 157.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.18
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

Input Watts (W): 192.4
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	117	117	117	117	113	113	113	113	106	106	106		100	100	100		94
1	108	104	101	97	105	101	98	95	95	93	90		90	88	86		85
2	100	94	88	83	97	91	86	81	86	82	78		82	78	75		78
3	93	85	78	72	90	82	76	71	78	73	69		75	70	67		71
4	87	77	69	64	84	75	68	63	72	66	61		68	63	60		65
5	81	70	62	57	78	68	61	56	66	59	55		63	58	53		60
6	76	64	57	51	73	63	56	50	60	54	49		58	53	48		56
7	71	59	51	46	69	58	51	46	56	49	45		54	48	44		52
8	66	55	47	42	64	53	46	42	52	45	41		50	44	40		48
9	62	50	43	38	61	50	43	38	48	42	37		46	41	37		45
10	59	47	40	35	57	46	39	35	45	39	34		43	38	34		42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	95524
5°	92106
10°	89103
15°	85734
20°	82865
25°	80042
30°	77119
35°	67419
40°	50614
45°	33730
50°	19220
55°	9817
60°	8804
65°	9197
70°	10010
75°	10306
80°	9526
85°	8591

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 33730 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1433.4	4.7
10°-20°	4130.7	13.6
20°-30°	6353.8	21.0
30°-40°	6942.1	22.9
40°-50°	4193.9	13.9
50°-60°	1506.5	5.0
60°-70°	1182.5	3.9
70°-80°	1140.3	3.8
80°-90°	785.5	2.6
90°-100°	641.1	2.1
100°-110°	586.9	1.9
110°-120°	445.6	1.5
120°-130°	328.3	1.1
130°-140°	245.2	0.8
140°-150°	173.0	0.6
150°-160°	110.0	0.4
160°-170°	54.9	0.2
170°-180°	14.2	0.0
0°-30°	11917.9	39.4
0°-40°	18860.0	62.3
0°-60°	24560.3	81.1
0°-90°	27668.7	91.4
90°-120°	1673.6	5.5
90°-150°	2420.1	8.0
90°-180°	2599.0	8.6
0°-180°	30268.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15102	
5°	15056	###
15°	14610	4131
25°	13782	6354
35°	11376	6942
45°	5402	4194
55°	1440	1506
65°	1184	1183
75°	1102	1140
85°	704	618
90°	591	329
95°	586	480
105°	561	587
115°	446	446
125°	364	328
135°	317	245
145°	274	173
155°	237	110
165°	192	55
175°	145	14
180°	143	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	15102.5
2.5°	15093.1
5°	15055.6
7.5°	15006.3
10°	14931.3
12.5°	14790.6
15°	14610.0
17.5°	14438.7
20°	14248.8
22.5°	14035.3
25°	13782.0
27.5°	13493.5
30°	13195.6
32.5°	12487.3
35°	11375.5
37.5°	9949.5
40°	8354.6
42.5°	6769.0
45°	5401.6
47.5°	4125.7
50°	2960.0
52.5°	1953.8
55°	1440.1
57.5°	1294.7
60°	1217.3
62.5°	1193.8
65°	1184.5
67.5°	1186.8
70°	1184.5
72.5°	1158.7
75°	1102.4
77.5°	1010.9
80°	903.0
82.5°	797.5
85°	703.6
87.5°	633.3
90°	591.1
92.5°	586.4
95°	586.4
97.5°	588.7
100°	586.4
102.5°	577.0
105°	560.6
107.5°	534.8
110°	504.3



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	476.1
115°	445.6
117.5°	419.8
120°	398.7
122.5°	380.0
125°	363.5
127.5°	349.5
130°	337.7
132.5°	326.0
135°	316.6
137.5°	304.9
140°	295.5
142.5°	283.8
145°	274.4
147.5°	265.0
150°	255.7
152.5°	246.3
155°	236.9
157.5°	227.5
160°	215.8
162.5°	204.1
165°	192.3
167.5°	178.3
170°	164.2
172.5°	145.4
175°	145.4
177.5°	143.1
180°	143.1

(END OF REPORT)