

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: P980740

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

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980740
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-HIGH-3500K-FRR6
Description: UHBS2 LED High Bay at 3500K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

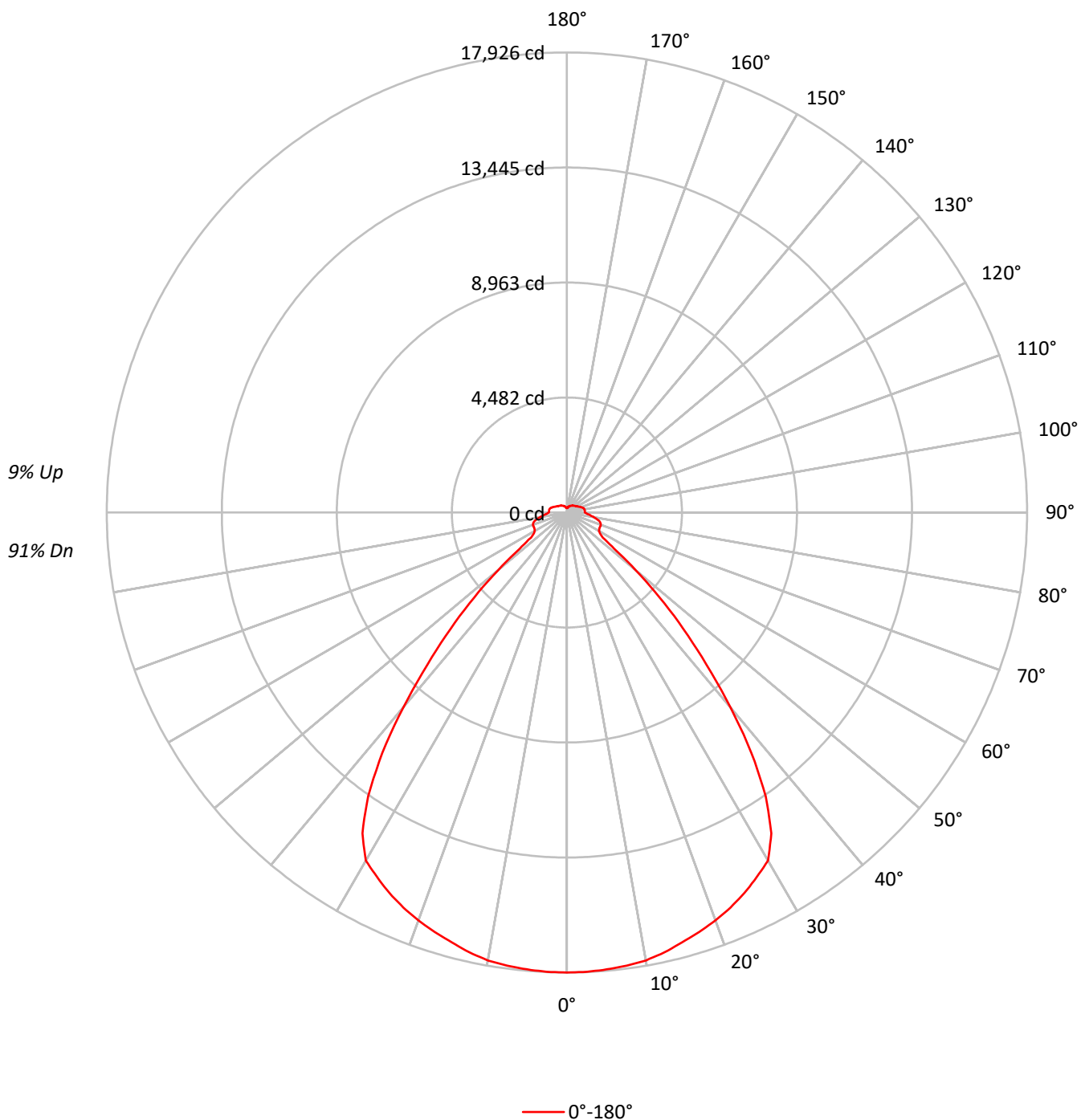
Lumens per Lamp: N/A
Luminaire Lumens: 35927.1 lumens
Efficiency: N/A
Efficacy: 152.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.18
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

Input Watts (W): 235.5
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	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°	113384
5°	109326
10°	105762
15°	101763
20°	98357
25°	95006
30°	91537
35°	80025
40°	60077
45°	40036
50°	22814
55°	11653
60°	10450
65°	10916
70°	11882
75°	12233
80°	11307
85°	10198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 40036 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1701.4	4.7
10°-20°	4903.0	13.6
20°-30°	7541.7	21.0
30°-40°	8240.1	22.9
40°-50°	4978.0	13.9
50°-60°	1788.1	5.0
60°-70°	1403.6	3.9
70°-80°	1353.5	3.8
80°-90°	932.4	2.6
90°-100°	760.9	2.1
100°-110°	696.6	1.9
110°-120°	529.0	1.5
120°-130°	389.6	1.1
130°-140°	291.1	0.8
140°-150°	205.4	0.6
150°-160°	130.6	0.4
160°-170°	65.2	0.2
170°-180°	16.9	0.0
0°-30°	14146.1	39.4
0°-40°	22386.2	62.3
0°-60°	29152.3	81.1
0°-90°	32841.8	91.4
90°-120°	1986.5	5.5
90°-150°	2872.6	8.0
90°-180°	3085.0	8.6
0°-180°	35927.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17926	
5°	17870	###
15°	17342	4903
25°	16359	7542
35°	13502	8240
45°	6412	4978
55°	1709	1788
65°	1406	1404
75°	1308	1354
85°	835	733
90°	702	391
95°	696	569
105°	665	697
115°	529	529
125°	432	390
135°	376	291
145°	326	205
155°	281	131
165°	228	65
175°	173	17
180°	170	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	17926.1
2.5°	17915.0
5°	17870.4
7.5°	17812.0
10°	17722.9
12.5°	17555.8
15°	17341.5
17.5°	17138.2
20°	16912.7
22.5°	16659.4
25°	16358.7
27.5°	16016.3
30°	15662.7
32.5°	14822.0
35°	13502.4
37.5°	11809.7
40°	9916.6
42.5°	8034.6
45°	6411.5
47.5°	4897.0
50°	3513.4
52.5°	2319.1
55°	1709.4
57.5°	1536.8
60°	1444.9
62.5°	1417.1
65°	1405.9
67.5°	1408.7
70°	1405.9
72.5°	1375.3
75°	1308.5
77.5°	1199.9
80°	1071.8
82.5°	946.6
85°	835.2
87.5°	751.7
90°	701.6
92.5°	696.0
95°	696.0
97.5°	698.8
100°	696.0
102.5°	684.9
105°	665.4
107.5°	634.7
110°	598.6

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	565.2
115°	529.0
117.5°	498.3
120°	473.3
122.5°	451.0
125°	431.5
127.5°	414.8
130°	400.9
132.5°	387.0
135°	375.8
137.5°	361.9
140°	350.8
142.5°	336.9
145°	325.7
147.5°	314.6
150°	303.5
152.5°	292.3
155°	281.2
157.5°	270.0
160°	256.1
162.5°	242.2
165°	228.3
167.5°	211.6
170°	194.9
172.5°	172.6
175°	172.6
177.5°	169.8
180°	169.8

(END OF REPORT)