

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: P980746

Luminaire Tested: UHBS2-2436-W-L83065-HIGH-5000K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980746
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-5000K-FRR6
Description: UHBS2 LED High Bay at 5000K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

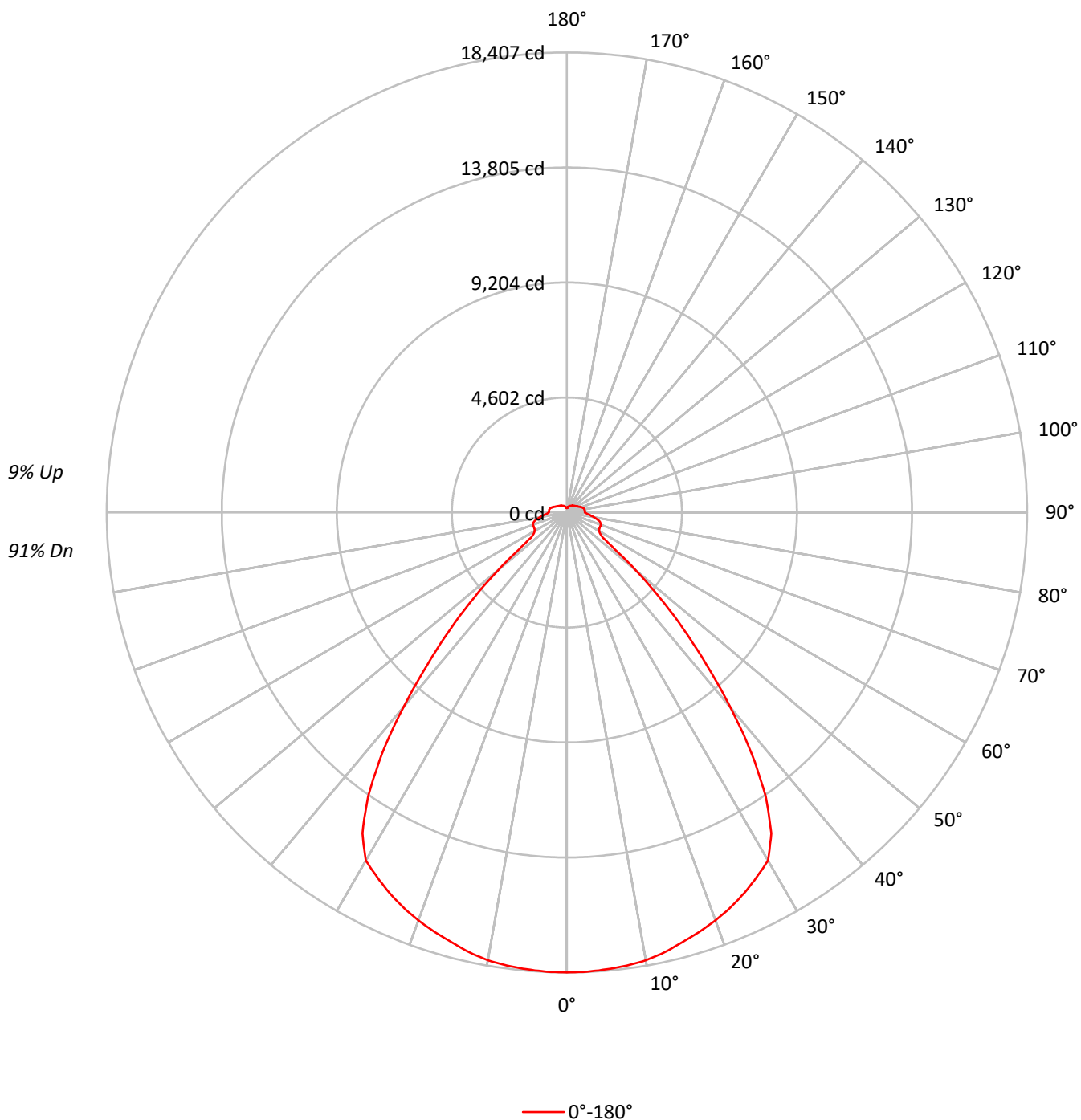
Lumens per Lamp: N/A
Luminaire Lumens: 36890.1 lumens
Efficiency: N/A
Efficacy: 158.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.18
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

Input Watts (W): 233.5
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°	116423
5°	112257
10°	108597
15°	104490
20°	100993
25°	97553
30°	93991
35°	82169
40°	61688
45°	41109
50°	23425
55°	11965
60°	10730
65°	11209
70°	12200
75°	12560
80°	11611
85°	10472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 41109 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1747.0	4.7
10°-20°	5034.4	13.6
20°-30°	7743.9	21.0
30°-40°	8460.9	22.9
40°-50°	5111.4	13.9
50°-60°	1836.0	5.0
60°-70°	1441.3	3.9
70°-80°	1389.8	3.8
80°-90°	957.4	2.6
90°-100°	781.3	2.1
100°-110°	715.2	1.9
110°-120°	543.1	1.5
120°-130°	400.1	1.1
130°-140°	298.8	0.8
140°-150°	210.9	0.6
150°-160°	134.1	0.4
160°-170°	67.0	0.2
170°-180°	17.4	0.0
0°-30°	14525.3	39.4
0°-40°	22986.2	62.3
0°-60°	29933.7	81.1
0°-90°	33722.1	91.4
90°-120°	2039.7	5.5
90°-150°	2949.5	8.0
90°-180°	3168.0	8.6
0°-180°	36890.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18407	
5°	18349	###
15°	17806	5034
25°	16797	7744
35°	13864	8461
45°	6583	5111
55°	1755	1836
65°	1444	1441
75°	1344	1390
85°	858	753
90°	720	401
95°	715	585
105°	683	715
115°	543	543
125°	443	400
135°	386	299
145°	334	211
155°	289	134
165°	234	67
175°	177	17
180°	174	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	18406.6
2.5°	18395.2
5°	18349.4
7.5°	18289.4
10°	18197.9
12.5°	18026.4
15°	17806.3
17.5°	17597.6
20°	17366.1
22.5°	17105.9
25°	16797.2
27.5°	16445.6
30°	16082.6
32.5°	15219.3
35°	13864.3
37.5°	12126.2
40°	10182.4
42.5°	8250.0
45°	6583.4
47.5°	5028.3
50°	3607.6
52.5°	2381.2
55°	1755.2
57.5°	1578.0
60°	1483.6
62.5°	1455.0
65°	1443.6
67.5°	1446.5
70°	1443.6
72.5°	1412.2
75°	1343.5
77.5°	1232.1
80°	1100.6
82.5°	971.9
85°	857.6
87.5°	771.8
90°	720.4
92.5°	714.7
95°	714.7
97.5°	717.5
100°	714.7
102.5°	703.2
105°	683.2
107.5°	651.8
110°	614.6

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	580.3
115°	543.1
117.5°	511.7
120°	486.0
122.5°	463.1
125°	443.1
127.5°	425.9
130°	411.6
132.5°	397.3
135°	385.9
137.5°	371.6
140°	360.2
142.5°	345.9
145°	334.5
147.5°	323.0
150°	311.6
152.5°	300.2
155°	288.7
157.5°	277.3
160°	263.0
162.5°	248.7
165°	234.4
167.5°	217.3
170°	200.1
172.5°	177.2
175°	177.2
177.5°	174.4
180°	174.4

(END OF REPORT)