

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: P980712

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

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-9)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-2436-N-L83065-HIGH-5000K-FRR6
Description: UHBS2 LED High Bay at 5000K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

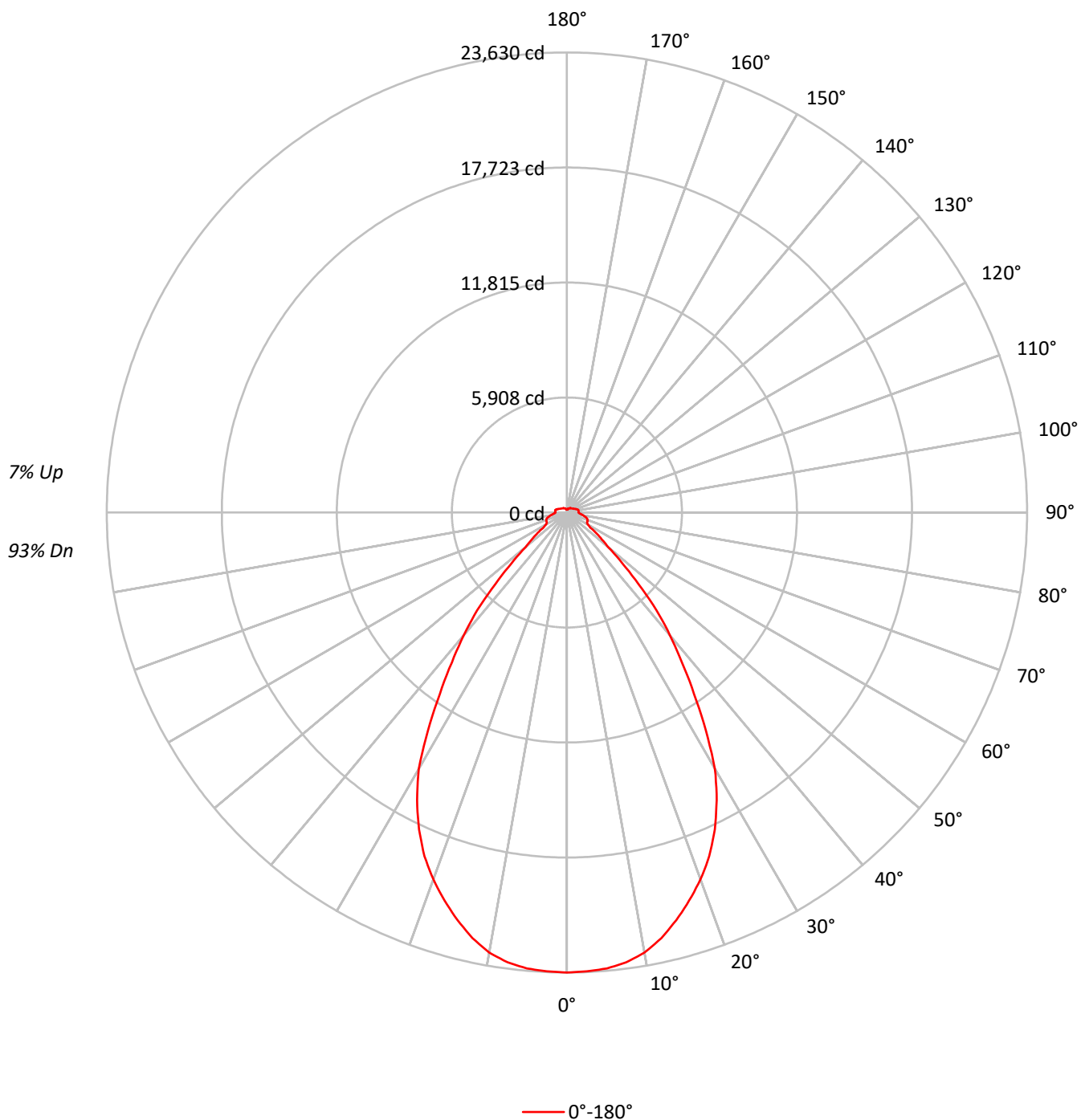
Lumens per Lamp: N/A
Luminaire Lumens: 34989.0 lumens
Efficiency: N/A
Efficacy: 149.8 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

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	114	114	114	114	107	107	107		101	101	101		95
1	109	105	102	99	106	102	99	97	97	94	92		92	90	88		87
2	102	95	90	85	99	93	88	84	88	84	81		84	81	78		80
3	95	87	80	75	92	85	79	74	81	76	72		77	73	70		74
4	89	79	72	67	86	78	71	66	74	69	65		71	67	63		69
5	83	73	66	60	81	71	65	60	69	63	58		66	61	57		64
6	78	67	60	55	76	66	59	54	64	58	53		61	56	52		59
7	73	62	55	50	71	61	54	50	59	53	49		57	52	48		55
8	69	58	51	46	67	57	50	46	55	49	45		53	48	44		52
9	65	54	47	42	64	53	47	42	52	46	42		50	45	41		49
10	62	50	44	39	60	50	43	39	48	43	39		47	42	38		46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	149462
5°	143812
10°	136964
15°	127252
20°	116653
25°	104350
30°	88871
35°	67467
40°	49881
45°	32437
50°	17986
55°	12402
60°	8969
65°	8857
70°	9566
75°	9653
80°	8887
85°	8286

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 32437 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2226.6	6.4
10°-20°	6086.3	17.4
20°-30°	8192.3	23.4
30°-40°	7151.4	20.4
40°-50°	4078.8	11.7
50°-60°	1668.0	4.8
60°-70°	1150.2	3.3
70°-80°	1072.2	3.1
80°-90°	755.2	2.2
90°-100°	657.4	1.9
100°-110°	602.2	1.7
110°-120°	441.7	1.3
120°-130°	319.7	0.9
130°-140°	239.1	0.7
140°-150°	170.2	0.5
150°-160°	108.6	0.3
160°-170°	54.7	0.2
170°-180°	14.5	0.0
0°-30°	16505.2	47.2
0°-40°	23656.5	67.6
0°-60°	29403.3	84.0
0°-90°	32380.8	92.5
90°-120°	1701.3	4.9
90°-150°	2430.3	6.9
90°-180°	2608.0	7.5
0°-180°	34989.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	23630	
5°	23507	###
15°	21685	6086
25°	17968	8192
35°	11384	7151
45°	5195	4079
55°	1819	1668
65°	1141	1150
75°	1032	1072
85°	679	589
90°	591	329
95°	602	495
105°	576	602
115°	442	442
125°	354	320
135°	307	239
145°	269	170
155°	234	109
165°	193	55
175°	149	15
180°	146	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	23630.1
2.5°	23592.1
5°	23507.3
7.5°	23308.4
10°	22951.5
12.5°	22395.8
15°	21685.1
17.5°	20895.4
20°	20058.8
22.5°	19105.3
25°	17967.6
27.5°	16660.1
30°	15206.5
32.5°	13273.1
35°	11383.6
37.5°	9707.7
40°	8233.5
42.5°	6817.9
45°	5194.6
47.5°	3860.8
50°	2769.9
52.5°	2263.9
55°	1819.3
57.5°	1409.8
60°	1240.1
62.5°	1167.0
65°	1140.7
67.5°	1143.6
70°	1131.9
72.5°	1096.8
75°	1032.5
77.5°	941.8
80°	842.4
82.5°	754.6
85°	678.6
87.5°	620.1
90°	590.8
92.5°	596.7
95°	602.5
97.5°	611.3
100°	608.4
102.5°	596.7
105°	576.2
107.5°	544.0
110°	508.9

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	473.8
115°	441.7
117.5°	412.4
120°	389.0
122.5°	371.5
125°	353.9
127.5°	339.3
130°	327.6
132.5°	318.8
135°	307.1
137.5°	298.3
140°	289.6
142.5°	280.8
145°	269.1
147.5°	260.3
150°	251.5
152.5°	242.8
155°	234.0
157.5°	225.2
160°	213.5
162.5°	201.8
165°	193.0
167.5°	178.4
170°	163.8
172.5°	149.2
175°	149.2
177.5°	146.2
180°	146.2

(END OF REPORT)