

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: P980722

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

Issue Date: 4/4/2025

**Test Information**

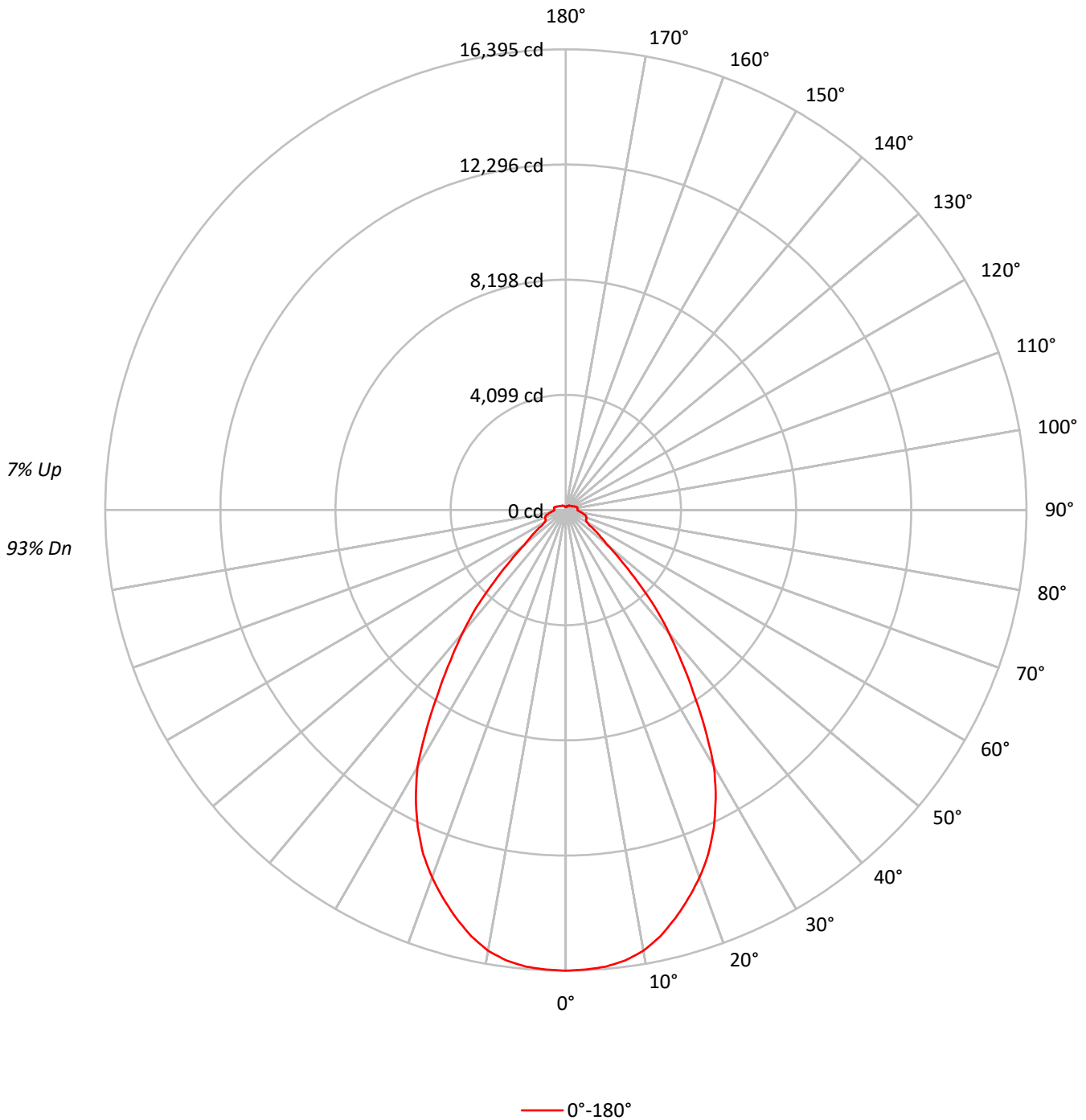
Test Method: LM-79-2019  
Report Number: P980722  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: UHBS2-2436-N-L83065-LOW-5000K-FRR6  
Description: UHBS2 LED High Bay at 5000K and LOW lumen setting 3in Deep Frosted Refractor  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24275.9 lumens  
Efficiency: N/A  
Efficacy: 157.9 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): 153.7  
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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	95	95	95	93
1	109	105	102	99	106	102	99	97	97	94	92	92	90	88	87	86	84	87	86	84	82
2	102	95	90	85	99	93	88	84	88	84	81	84	81	78	80	78	75	80	78	75	73
3	95	87	80	75	92	85	79	74	81	76	72	77	73	70	74	71	68	74	71	68	66
4	89	79	72	67	86	78	71	66	74	69	65	71	67	63	69	65	62	69	65	62	59
5	83	73	66	60	81	71	65	60	69	63	58	66	61	57	64	59	56	64	59	56	54
6	78	67	60	55	76	66	59	54	64	58	53	61	56	52	59	55	51	59	55	51	49
7	73	62	55	50	71	61	54	50	59	53	49	57	52	48	55	51	47	55	51	47	45
8	69	58	51	46	67	57	50	46	55	49	45	53	48	44	52	47	44	52	47	44	42
9	65	54	47	42	64	53	47	42	52	46	42	50	45	41	49	44	40	49	44	40	39
10	62	50	44	39	60	50	43	39	48	43	39	47	42	38	46	41	38	46	41	38	36

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	103699
5°	99779
10°	95029
15°	88289
20°	80936
25°	72400
30°	61660
35°	46810
40°	34608
45°	22505
50°	12479
55°	8604
60°	6223
65°	6145
70°	6638
75°	6697
80°	6165
85°	5749

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22505 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1544.8	6.4
10°-20°	4222.8	17.4
20°-30°	5683.9	23.4
30°-40°	4961.8	20.4
40°-50°	2829.9	11.7
50°-60°	1157.2	4.8
60°-70°	798.1	3.3
70°-80°	743.9	3.1
80°-90°	523.9	2.2
90°-100°	456.1	1.9
100°-110°	417.9	1.7
110°-120°	306.5	1.3
120°-130°	221.8	0.9
130°-140°	165.9	0.7
140°-150°	118.1	0.5
150°-160°	75.4	0.3
160°-170°	37.9	0.2
170°-180°	10.1	0.0
0°-30°	11451.6	47.2
0°-40°	16413.3	67.6
0°-60°	20400.5	84.0
0°-90°	22466.4	92.5
90°-120°	1180.4	4.9
90°-150°	1686.2	6.9
90°-180°	1810.0	7.5
0°-180°	24275.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	16395	
5°	16310	###
15°	15046	4223
25°	12466	5684
35°	7898	4962
45°	3604	2830
55°	1262	1157
65°	791	798
75°	716	744
85°	471	409
90°	410	228
95°	418	343
105°	400	418
115°	306	306
125°	246	222
135°	213	166
145°	187	118
155°	162	75
165°	134	38
175°	104	10
180°	102	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	16395.0
2.5°	16368.6
5°	16309.8
7.5°	16171.8
10°	15924.2
12.5°	15538.6
15°	15045.5
17.5°	14497.6
20°	13917.2
22.5°	13255.6
25°	12466.2
27.5°	11559.1
30°	10550.5
32.5°	9209.1
35°	7898.2
37.5°	6735.4
40°	5712.6
42.5°	4730.4
45°	3604.1
47.5°	2678.7
50°	1921.8
52.5°	1570.7
55°	1262.2
57.5°	978.1
60°	860.4
62.5°	809.7
65°	791.4
67.5°	793.5
70°	785.4
72.5°	761.0
75°	716.4
77.5°	653.4
80°	584.4
82.5°	523.6
85°	470.8
87.5°	430.2
90°	409.9
92.5°	414.0
95°	418.0
97.5°	424.1
100°	422.1
102.5°	414.0
105°	399.8
107.5°	377.5
110°	353.1



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	328.8
115°	306.4
117.5°	286.1
120°	269.9
122.5°	257.7
125°	245.5
127.5°	235.4
130°	227.3
132.5°	221.2
135°	213.1
137.5°	207.0
140°	200.9
142.5°	194.8
145°	186.7
147.5°	180.6
150°	174.5
152.5°	168.4
155°	162.3
157.5°	156.3
160°	148.1
162.5°	140.0
165°	133.9
167.5°	123.8
170°	113.6
172.5°	103.5
175°	103.5
177.5°	101.5
180°	101.5

(END OF REPORT)