

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: P980734

Luminaire Tested: UHBS2-2436-N-L83065-MID-6500K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980734
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-MID-6500K-FRR6
Description: UHBS2 LED High Bay at 6500K and MID lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

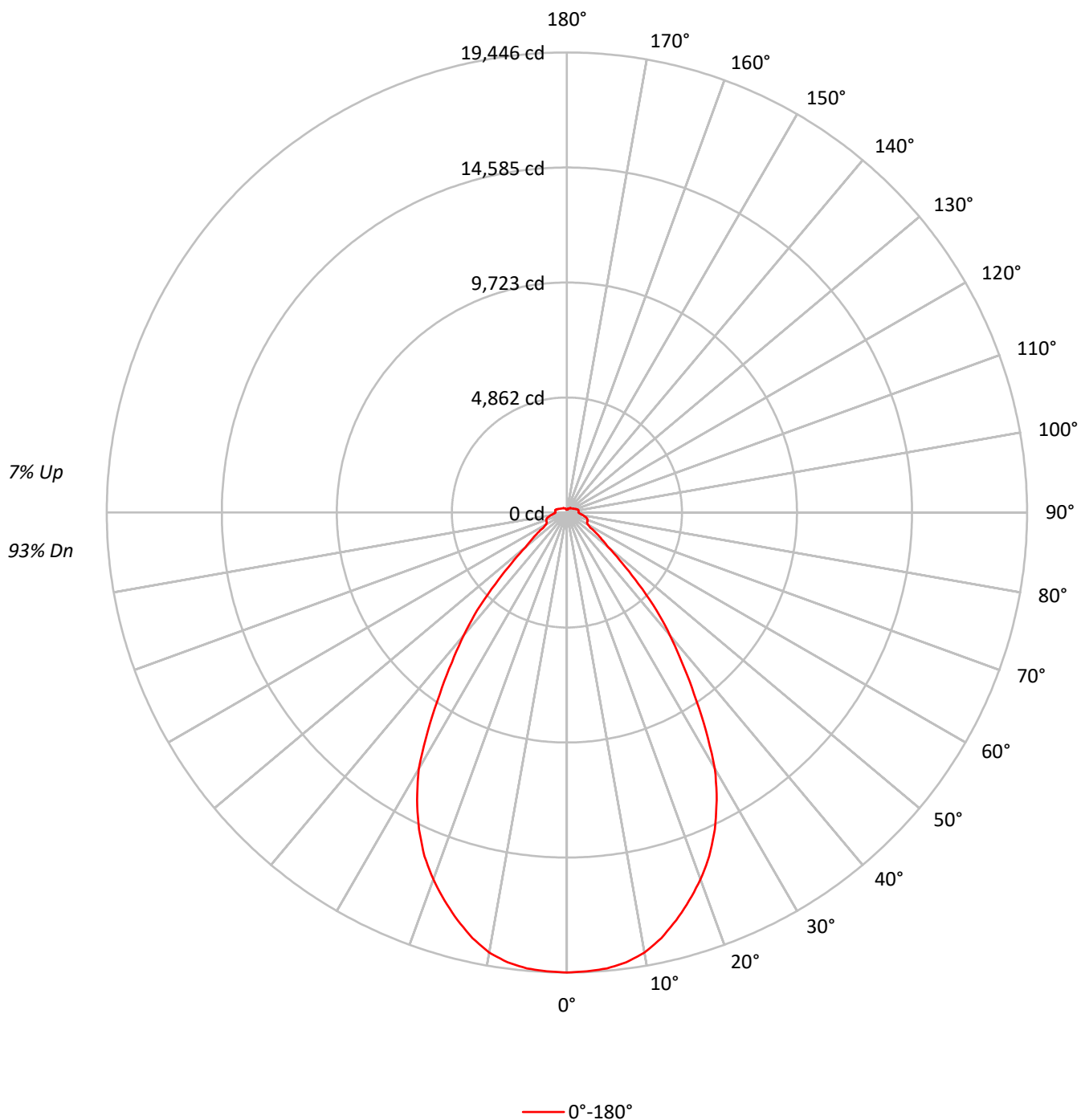
Lumens per Lamp: N/A
Luminaire Lumens: 28793.0 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

Input Watts (W): 195
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				0
RW	70	50	30	10	70	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		93
1	109	105	102	99	106	102	99	97	97	94	92		92	90	88		82
2	102	95	90	85	99	93	88	84	88	84	81		84	81	78		73
3	95	87	80	75	92	85	79	74	81	76	72		77	73	70		66
4	89	79	72	67	86	78	71	66	74	69	65		71	67	63		59
5	83	73	66	60	81	71	65	60	69	63	58		66	61	57		54
6	78	67	60	55	76	66	59	54	64	58	53		61	56	52		49
7	73	62	55	50	71	61	54	50	59	53	49		57	52	48		45
8	69	58	51	46	67	57	50	46	55	49	45		53	48	44		42
9	65	54	47	42	64	53	47	42	52	46	42		50	45	41		39
10	62	50	44	39	60	50	43	39	48	43	39		47	42	38		36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	122995
5°	118345
10°	112710
15°	104717
20°	95996
25°	85871
30°	73133
35°	55520
40°	41048
45°	26693
50°	14801
55°	10206
60°	7381
65°	7289
70°	7872
75°	7943
80°	7313
85°	6818

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 26693 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1832.3	6.4
10°-20°	5008.5	17.4
20°-30°	6741.6	23.4
30°-40°	5885.0	20.4
40°-50°	3356.5	11.7
50°-60°	1372.6	4.8
60°-70°	946.6	3.3
70°-80°	882.3	3.1
80°-90°	621.5	2.2
90°-100°	540.9	1.9
100°-110°	495.6	1.7
110°-120°	363.5	1.3
120°-130°	263.1	0.9
130°-140°	196.8	0.7
140°-150°	140.1	0.5
150°-160°	89.4	0.3
160°-170°	45.0	0.2
170°-180°	11.9	0.0
0°-30°	13582.4	47.2
0°-40°	19467.3	67.6
0°-60°	24196.4	84.0
0°-90°	26646.7	92.5
90°-120°	1400.0	4.9
90°-150°	1999.9	6.9
90°-180°	2146.0	7.5
0°-180°	28793.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	19446	
5°	19344	###
15°	17845	5009
25°	14786	6742
35°	9368	5885
45°	4275	3356
55°	1497	1373
65°	939	947
75°	850	882
85°	558	485
90°	486	270
95°	496	407
105°	474	496
115°	363	363
125°	291	263
135°	253	197
145°	221	140
155°	193	89
165°	159	45
175°	123	12
180°	120	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	19445.6
2.5°	19414.3
5°	19344.5
7.5°	19180.8
10°	18887.2
12.5°	18429.9
15°	17845.0
17.5°	17195.1
20°	16506.7
22.5°	15722.1
25°	14785.8
27.5°	13709.9
30°	12513.6
32.5°	10922.7
35°	9367.8
37.5°	7988.6
40°	6775.5
42.5°	5610.6
45°	4274.7
47.5°	3177.1
50°	2279.4
52.5°	1863.0
55°	1497.1
57.5°	1160.1
60°	1020.5
62.5°	960.4
65°	938.7
67.5°	941.1
70°	931.5
72.5°	902.6
75°	849.6
77.5°	775.0
80°	693.2
82.5°	621.0
85°	558.4
87.5°	510.3
90°	486.2
92.5°	491.0
95°	495.8
97.5°	503.0
100°	500.6
102.5°	491.0
105°	474.2
107.5°	447.7
110°	418.8

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	389.9
115°	363.4
117.5°	339.4
120°	320.1
122.5°	305.7
125°	291.2
127.5°	279.2
130°	269.6
132.5°	262.4
135°	252.7
137.5°	245.5
140°	238.3
142.5°	231.1
145°	221.4
147.5°	214.2
150°	207.0
152.5°	199.8
155°	192.6
157.5°	185.3
160°	175.7
162.5°	166.1
165°	158.9
167.5°	146.8
170°	134.8
172.5°	122.8
175°	122.8
177.5°	120.3
180°	120.3

(END OF REPORT)