

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: P980724

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

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980724
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-6500K-FRR6
Description: UHBS2 LED High Bay at 6500K and LOW lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

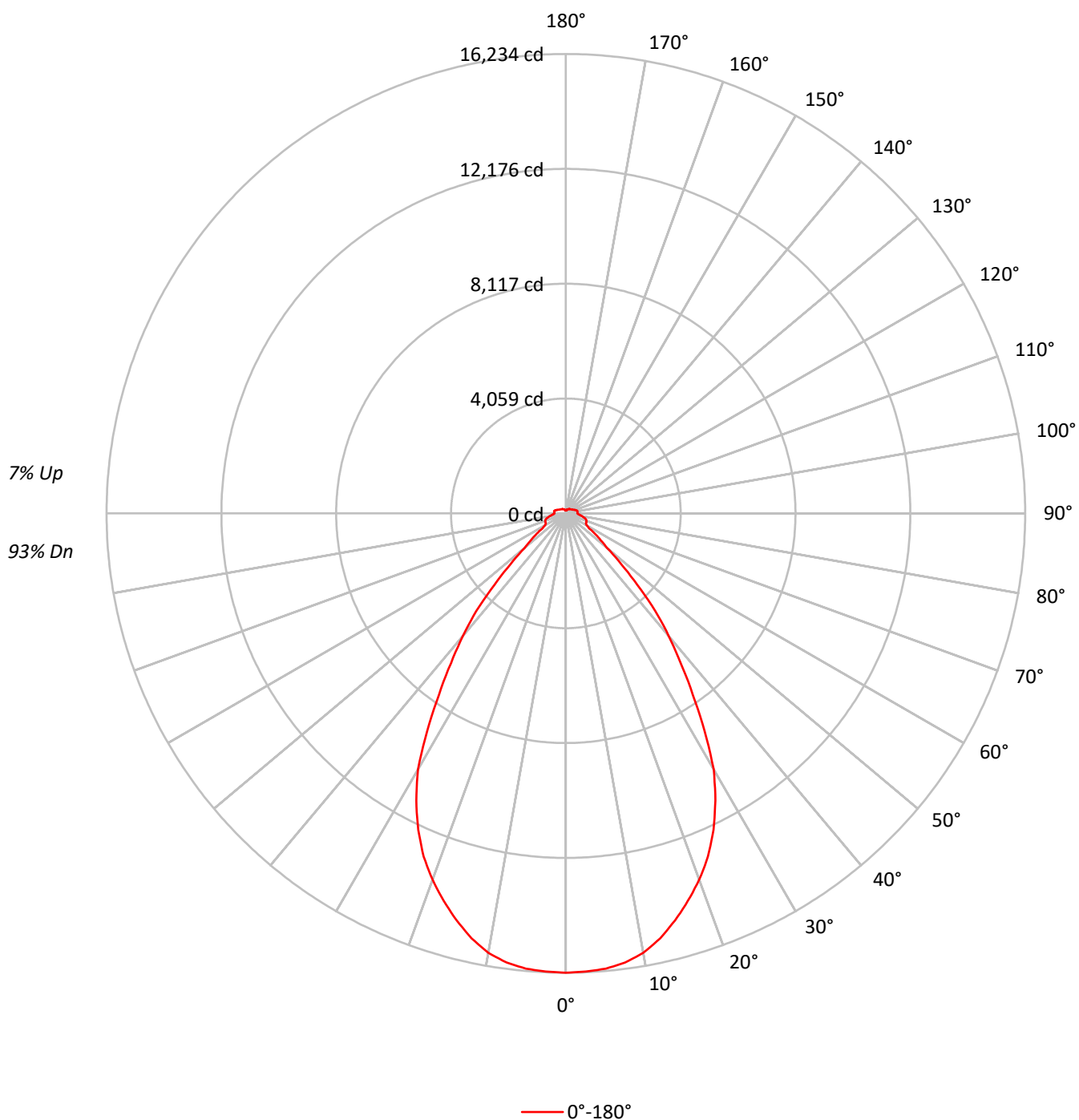
Lumens per Lamp: N/A
Luminaire Lumens: 24038.0 lumens
Efficiency: N/A
Efficacy: 155.9 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

Input Watts (W): 154.2
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

TEST NUMBER: P980724

CATALOG NUMBER: UHBS2-2436-N-L83065-LOW-6500K-FRR6

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	30	10
RCR																	
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95
1	109	105	102	99	106	102	99	97	97	94	92	92	90	88	87	86	84
2	102	95	90	85	99	93	88	84	88	84	81	84	81	78	80	78	75
3	95	87	80	75	92	85	79	74	81	76	72	77	73	70	74	71	68
4	89	79	72	67	86	78	71	66	74	69	65	71	67	63	69	65	62
5	83	73	66	60	81	71	65	60	69	63	58	66	61	57	64	59	56
6	78	67	60	55	76	66	59	54	64	58	53	61	56	52	59	55	51
7	73	62	55	50	71	61	54	50	59	53	49	57	52	48	55	51	47
8	69	58	51	46	67	57	50	46	55	49	45	53	48	44	52	47	44
9	65	54	47	42	64	53	47	42	52	46	42	50	45	41	49	44	40
10	62	50	44	39	60	50	43	39	48	43	39	47	42	38	46	41	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	102683
5°	98801
10°	94097
15°	87424
20°	80142
25°	71690
30°	61056
35°	46351
40°	34269
45°	22285
50°	12356
55°	8520
60°	6162
65°	6085
70°	6572
75°	6631
80°	6105
85°	5693

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22285 cd/sqm

TEST NUMBER: P980724

CATALOG NUMBER: UHBS2-2436-N-L83065-LOW-6500K-FRR6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1529.7	6.4
10°-20°	4181.4	17.4
20°-30°	5628.2	23.4
30°-40°	4913.1	20.4
40°-50°	2802.2	11.7
50°-60°	1145.9	4.8
60°-70°	790.3	3.3
70°-80°	736.6	3.1
80°-90°	518.8	2.2
90°-100°	451.6	1.9
100°-110°	413.8	1.7
110°-120°	303.4	1.3
120°-130°	219.6	0.9
130°-140°	164.3	0.7
140°-150°	116.9	0.5
150°-160°	74.6	0.3
160°-170°	37.6	0.2
170°-180°	10.0	0.0
0°-30°	11339.3	47.2
0°-40°	16252.4	67.6
0°-60°	20200.5	84.0
0°-90°	22246.2	92.5
90°-120°	1168.8	4.9
90°-150°	1669.6	6.9
90°-180°	1792.0	7.5
0°-180°	24038.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16234	
5°	16150	###
15°	14898	4181
25°	12344	5628
35°	7821	4913
45°	3569	2802
55°	1250	1146
65°	784	790
75°	709	737
85°	466	405
90°	406	226
95°	414	340
105°	396	414
115°	303	303
125°	243	220
135°	211	164
145°	185	117
155°	161	75
165°	133	38
175°	102	10
180°	100	

TEST NUMBER: P980724

CATALOG NUMBER: UHBS2-2436-N-L83065-LOW-6500K-FRR6

CANDELA DISTRIBUTION (FULL):

0°	
0°	16234.3
2.5°	16208.1
5°	16149.9
7.5°	16013.2
10°	15768.1
12.5°	15386.3
15°	14898.0
17.5°	14355.4
20°	13780.7
22.5°	13125.7
25°	12344.0
27.5°	11445.8
30°	10447.1
32.5°	9118.8
35°	7820.7
37.5°	6669.3
40°	5656.6
42.5°	4684.0
45°	3568.8
47.5°	2652.5
50°	1902.9
52.5°	1555.3
55°	1249.9
57.5°	968.6
60°	852.0
62.5°	801.8
65°	783.7
67.5°	785.7
70°	777.7
72.5°	753.5
75°	709.3
77.5°	647.0
80°	578.7
82.5°	518.4
85°	466.2
87.5°	426.0
90°	405.9
92.5°	409.9
95°	413.9
97.5°	420.0
100°	418.0
102.5°	409.9
105°	395.9
107.5°	373.8
110°	349.6

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CATALOG NUMBER: UHBS2-2436-N-L83065-LOW-6500K-FRR6

CANDELA DISTRIBUTION (continued):

	0°
112.5°	325.5
115°	303.4
117.5°	283.3
120°	267.3
122.5°	255.2
125°	243.1
127.5°	233.1
130°	225.1
132.5°	219.0
135°	211.0
137.5°	205.0
140°	198.9
142.5°	192.9
145°	184.9
147.5°	178.8
150°	172.8
152.5°	166.8
155°	160.8
157.5°	154.7
160°	146.7
162.5°	138.7
165°	132.6
167.5°	122.6
170°	112.5
172.5°	102.5
175°	102.5
177.5°	100.5
180°	100.5

(END OF REPORT)