

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: P980764

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

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980764
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-LOW-6500K-FRR6
Description: UHBS2 LED High Bay at 6500K and LOW lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

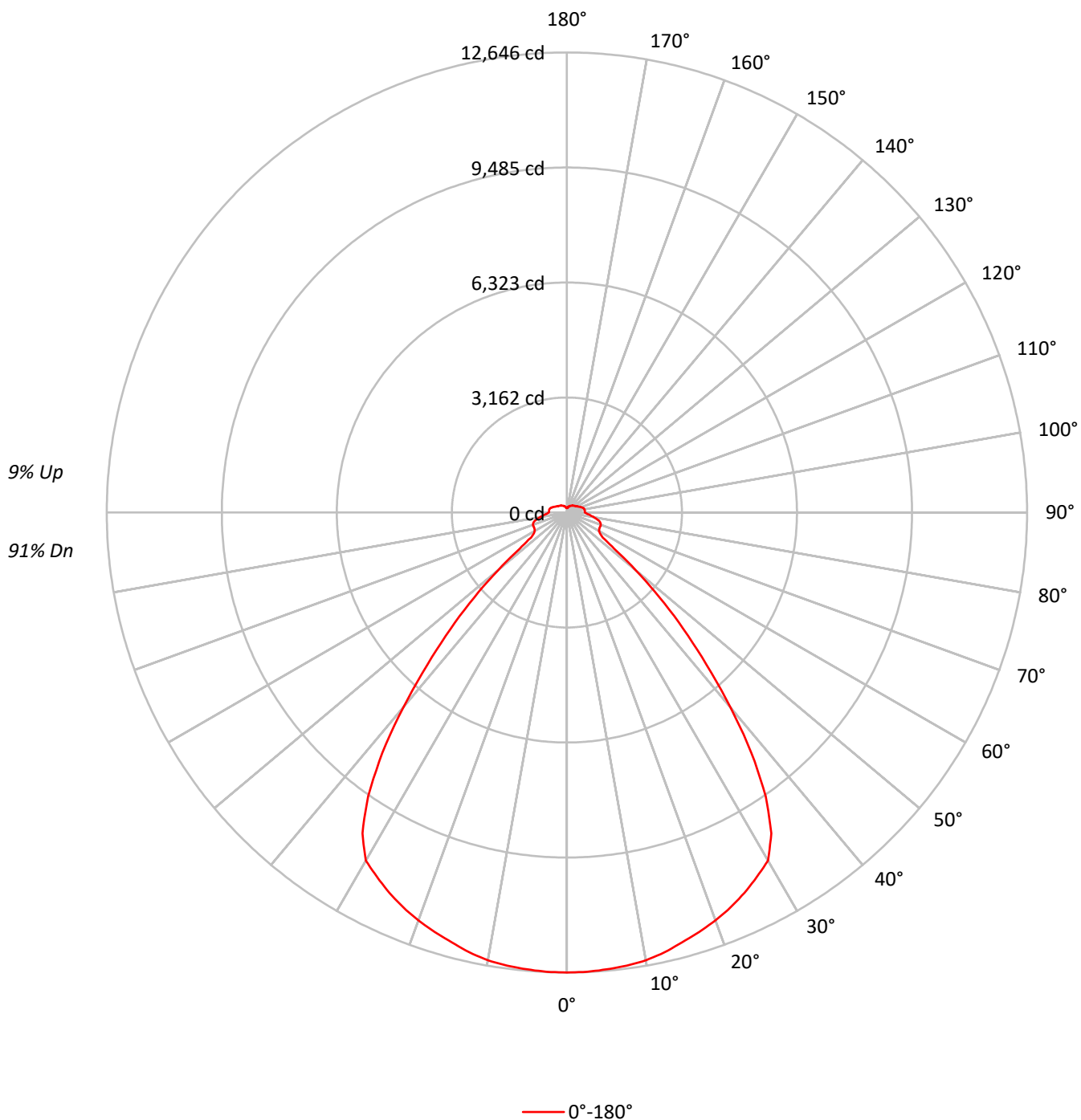
Lumens per Lamp: N/A
Luminaire Lumens: 25344.0 lumens
Efficiency: N/A
Efficacy: 164.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.18
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

Input Watts (W): 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: P980764

CATALOG NUMBER: UHBS2-2436-W-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	113	113	113	113	106	106	106	100	100	100	94	94	94
1	108	104	101	97	105	101	98	95	95	93	90	90	88	86	85	84	82
2	100	94	88	83	97	91	86	81	86	82	78	82	78	75	78	75	72
3	93	85	78	72	90	82	76	71	78	73	69	75	70	67	71	68	65
4	87	77	69	64	84	75	68	63	72	66	61	68	63	60	65	61	58
5	81	70	62	57	78	68	61	56	66	59	55	63	58	53	60	56	52
6	76	64	57	51	73	63	56	50	60	54	49	58	53	48	56	51	47
7	71	59	51	46	69	58	51	46	56	49	45	54	48	44	52	47	43
8	66	55	47	42	64	53	46	42	52	45	41	50	44	40	48	43	39
9	62	50	43	38	61	50	43	38	48	42	37	46	41	37	45	40	36
10	59	47	40	35	57	46	39	35	45	39	34	43	38	34	42	37	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	79984
5°	77122
10°	74608
15°	71786
20°	69384
25°	67020
30°	64573
35°	56452
40°	42380
45°	28243
50°	16094
55°	8220
60°	7372
65°	7701
70°	8382
75°	8629
80°	7976
85°	7195

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 28243 cd/sqm

TEST NUMBER: P980764

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1200.2	4.7
10°-20°	3458.7	13.6
20°-30°	5320.2	21.0
30°-40°	5812.8	22.9
40°-50°	3511.6	13.9
50°-60°	1261.4	5.0
60°-70°	990.2	3.9
70°-80°	954.8	3.8
80°-90°	657.7	2.6
90°-100°	536.8	2.1
100°-110°	491.4	1.9
110°-120°	373.1	1.5
120°-130°	274.9	1.1
130°-140°	205.3	0.8
140°-150°	144.9	0.6
150°-160°	92.1	0.4
160°-170°	46.0	0.2
170°-180°	11.9	0.0
0°-30°	9979.1	39.4
0°-40°	15791.9	62.3
0°-60°	20564.9	81.1
0°-90°	23167.6	91.4
90°-120°	1401.3	5.5
90°-150°	2026.4	8.0
90°-180°	2176.0	8.6
0°-180°	25344.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12646	
5°	12606	###
15°	12233	3459
25°	11540	5320
35°	9525	5813
45°	4523	3512
55°	1206	1261
65°	992	990
75°	923	955
85°	589	517
90°	495	276
95°	491	402
105°	469	491
115°	373	373
125°	304	275
135°	265	205
145°	230	145
155°	198	92
165°	161	46
175°	122	12
180°	120	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	12645.6
2.5°	12637.8
5°	12606.3
7.5°	12565.1
10°	12502.3
12.5°	12384.4
15°	12233.2
17.5°	12089.8
20°	11930.8
22.5°	11752.0
25°	11539.9
27.5°	11298.4
30°	11049.0
32.5°	10455.9
35°	9525.0
37.5°	8330.9
40°	6995.5
42.5°	5667.8
45°	4522.9
47.5°	3454.5
50°	2478.5
52.5°	1635.9
55°	1205.8
57.5°	1084.1
60°	1019.3
62.5°	999.6
65°	991.8
67.5°	993.7
70°	991.8
72.5°	970.2
75°	923.0
77.5°	846.4
80°	756.1
82.5°	667.7
85°	589.2
87.5°	530.3
90°	494.9
92.5°	491.0
95°	491.0
97.5°	492.9
100°	491.0
102.5°	483.1
105°	469.4
107.5°	447.8
110°	422.2



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

CANDELA DISTRIBUTION (continued):

	0°
112.5°	398.7
115°	373.1
117.5°	351.5
120°	333.9
122.5°	318.2
125°	304.4
127.5°	292.6
130°	282.8
132.5°	273.0
135°	265.1
137.5°	255.3
140°	247.5
142.5°	237.6
145°	229.8
147.5°	221.9
150°	214.1
152.5°	206.2
155°	198.4
157.5°	190.5
160°	180.7
162.5°	170.9
165°	161.0
167.5°	149.3
170°	137.5
172.5°	121.8
175°	121.8
177.5°	119.8
180°	119.8

(END OF REPORT)