

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: P980761

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

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980761
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-5000K-FRR6
Description: UHBS2 LED High Bay at 5000K and LOW lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

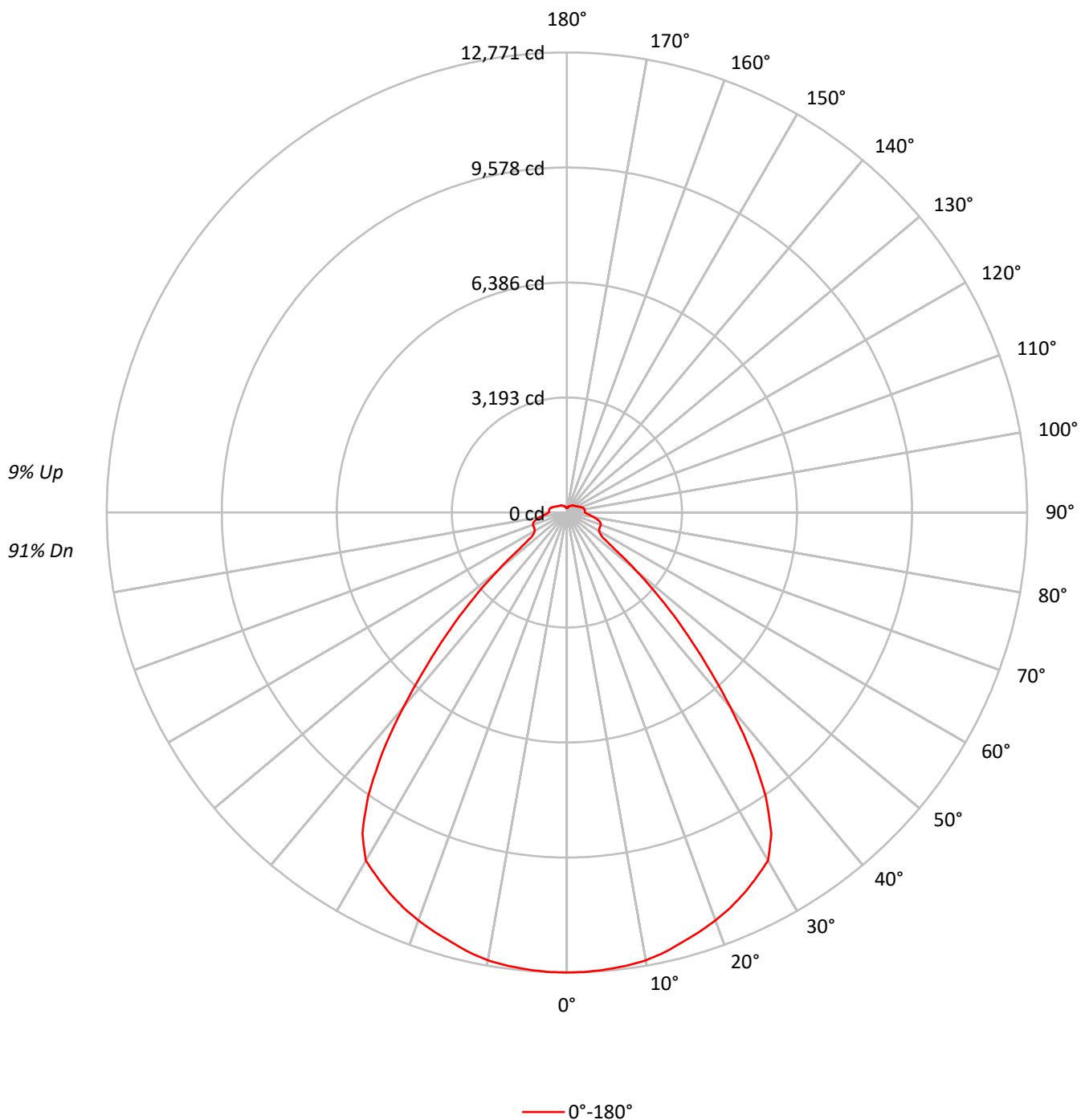
Lumens per Lamp: N/A
Luminaire Lumens: 25594.9 lumens
Efficiency: N/A
Efficacy: 166.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.18
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	80777
5°	77886
10°	75347
15°	72498
20°	70071
25°	67684
30°	65213
35°	57011
40°	42800
45°	28522
50°	16253
55°	8302
60°	7445
65°	7777
70°	8465
75°	8715
80°	8056
85°	7265

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 28522 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1212.1	4.7
10°-20°	3493.0	13.6
20°-30°	5372.8	21.0
30°-40°	5870.3	22.9
40°-50°	3546.4	13.9
50°-60°	1273.9	5.0
60°-70°	1000.0	3.9
70°-80°	964.3	3.8
80°-90°	664.2	2.6
90°-100°	542.0	2.1
100°-110°	496.2	1.9
110°-120°	376.8	1.5
120°-130°	277.6	1.1
130°-140°	207.4	0.8
140°-150°	146.3	0.6
150°-160°	93.1	0.4
160°-170°	46.5	0.2
170°-180°	12.0	0.0
0°-30°	10077.9	39.4
0°-40°	15948.3	62.3
0°-60°	20768.5	81.1
0°-90°	23397.0	91.4
90°-120°	1415.1	5.5
90°-150°	2046.4	8.0
90°-180°	2198.0	8.6
0°-180°	25594.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12771	
5°	12731	###
15°	12354	3493
25°	11654	5373
35°	9619	5870
45°	4568	3546
55°	1218	1274
65°	1002	1000
75°	932	964
85°	595	522
90°	500	278
95°	496	406
105°	474	496
115°	377	377
125°	307	278
135°	268	207
145°	232	146
155°	200	93
165°	163	46
175°	123	12
180°	121	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	12770.9
2.5°	12762.9
5°	12731.2
7.5°	12689.5
10°	12626.1
12.5°	12507.1
15°	12354.4
17.5°	12209.6
20°	12048.9
22.5°	11868.4
25°	11654.2
27.5°	11410.3
30°	11158.4
32.5°	10559.4
35°	9619.3
37.5°	8413.4
40°	7064.7
42.5°	5724.0
45°	4567.7
47.5°	3488.7
50°	2503.0
52.5°	1652.1
55°	1217.8
57.5°	1094.8
60°	1029.4
62.5°	1009.5
65°	1001.6
67.5°	1003.6
70°	1001.6
72.5°	979.8
75°	932.2
77.5°	854.8
80°	763.6
82.5°	674.3
85°	595.0
87.5°	535.5
90°	499.8
92.5°	495.8
95°	495.8
97.5°	497.8
100°	495.8
102.5°	487.9
105°	474.0
107.5°	452.2
110°	426.4

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	402.6
115°	376.8
117.5°	355.0
120°	337.2
122.5°	321.3
125°	307.4
127.5°	295.5
130°	285.6
132.5°	275.7
135°	267.8
137.5°	257.8
140°	249.9
142.5°	240.0
145°	232.1
147.5°	224.1
150°	216.2
152.5°	208.3
155°	200.3
157.5°	192.4
160°	182.5
162.5°	172.6
165°	162.6
167.5°	150.7
170°	138.8
172.5°	123.0
175°	123.0
177.5°	121.0
180°	121.0

(END OF REPORT)