

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: P980758

Luminaire Tested: UHBS2-2436-W-L83065-LOW-4000K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980758
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-4000K-FRR6
Description: UHBS2 LED High Bay at 4000K and LOW lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

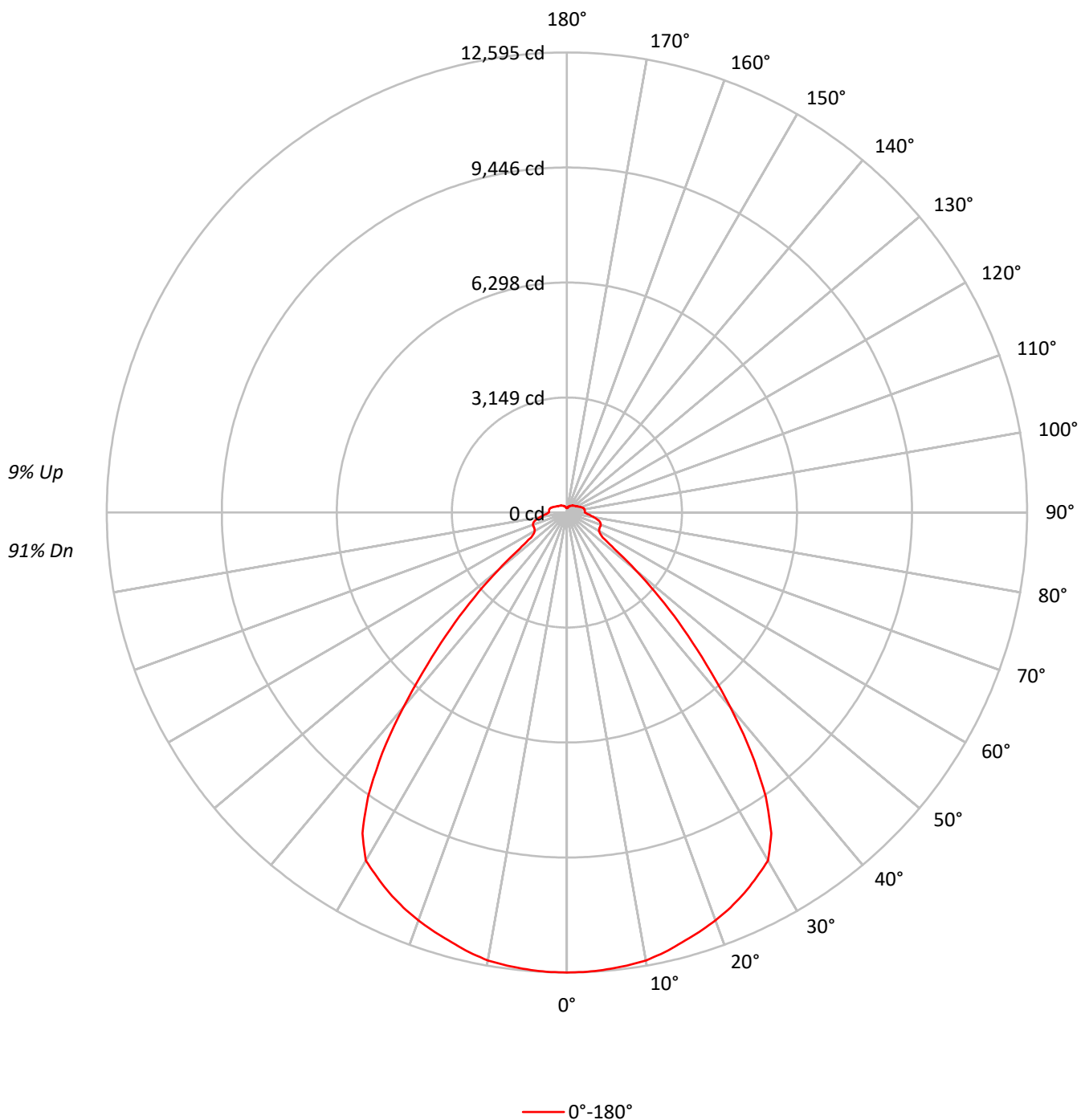
Lumens per Lamp: N/A
Luminaire Lumens: 25243.1 lumens
Efficiency: N/A
Efficacy: 165.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.18
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

Input Watts (W): 152.8
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°	79665
5°	76815
10°	74310
15°	71501
20°	69107
25°	66754
30°	64316
35°	56227
40°	42211
45°	28130
50°	16029
55°	8187
60°	7342
65°	7670
70°	8348
75°	8595
80°	7945
85°	7165

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 28130 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1195.4	4.7
10°-20°	3445.0	13.6
20°-30°	5299.0	21.0
30°-40°	5789.6	22.9
40°-50°	3497.7	13.9
50°-60°	1256.4	5.0
60°-70°	986.2	3.9
70°-80°	951.0	3.8
80°-90°	655.1	2.6
90°-100°	534.6	2.1
100°-110°	489.4	1.9
110°-120°	371.7	1.5
120°-130°	273.8	1.1
130°-140°	204.5	0.8
140°-150°	144.3	0.6
150°-160°	91.8	0.4
160°-170°	45.8	0.2
170°-180°	11.9	0.0
0°-30°	9939.3	39.4
0°-40°	15728.9	62.3
0°-60°	20483.0	81.1
0°-90°	23075.3	91.4
90°-120°	1395.7	5.5
90°-150°	2018.3	8.0
90°-180°	2168.0	8.6
0°-180°	25243.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12595	
5°	12556	###
15°	12184	3445
25°	11494	5299
35°	9487	5790
45°	4505	3498
55°	1201	1256
65°	988	986
75°	919	951
85°	587	515
90°	493	274
95°	489	400
105°	468	489
115°	372	372
125°	303	274
135°	264	205
145°	229	144
155°	198	92
165°	160	46
175°	121	12
180°	119	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	12595.2
2.5°	12587.4
5°	12556.1
7.5°	12515.0
10°	12452.4
12.5°	12335.1
15°	12184.5
17.5°	12041.7
20°	11883.2
22.5°	11705.2
25°	11494.0
27.5°	11253.4
30°	11004.9
32.5°	10414.2
35°	9487.0
37.5°	8297.7
40°	6967.6
42.5°	5645.3
45°	4504.9
47.5°	3440.8
50°	2468.6
52.5°	1629.4
55°	1201.0
57.5°	1079.8
60°	1015.2
62.5°	995.6
65°	987.8
67.5°	989.8
70°	987.8
72.5°	966.3
75°	919.4
77.5°	843.1
80°	753.1
82.5°	665.1
85°	586.8
87.5°	528.1
90°	492.9
92.5°	489.0
95°	489.0
97.5°	491.0
100°	489.0
102.5°	481.2
105°	467.5
107.5°	446.0
110°	420.6



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	397.1
115°	371.7
117.5°	350.1
120°	332.5
122.5°	316.9
125°	303.2
127.5°	291.5
130°	281.7
132.5°	271.9
135°	264.1
137.5°	254.3
140°	246.5
142.5°	236.7
145°	228.9
147.5°	221.0
150°	213.2
152.5°	205.4
155°	197.6
157.5°	189.7
160°	180.0
162.5°	170.2
165°	160.4
167.5°	148.7
170°	136.9
172.5°	121.3
175°	121.3
177.5°	119.3
180°	119.3

(END OF REPORT)