

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: P980779

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

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980779
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-MID-6500K-FRR6
Description: UHBS2 LED High Bay at 6500K and MID lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

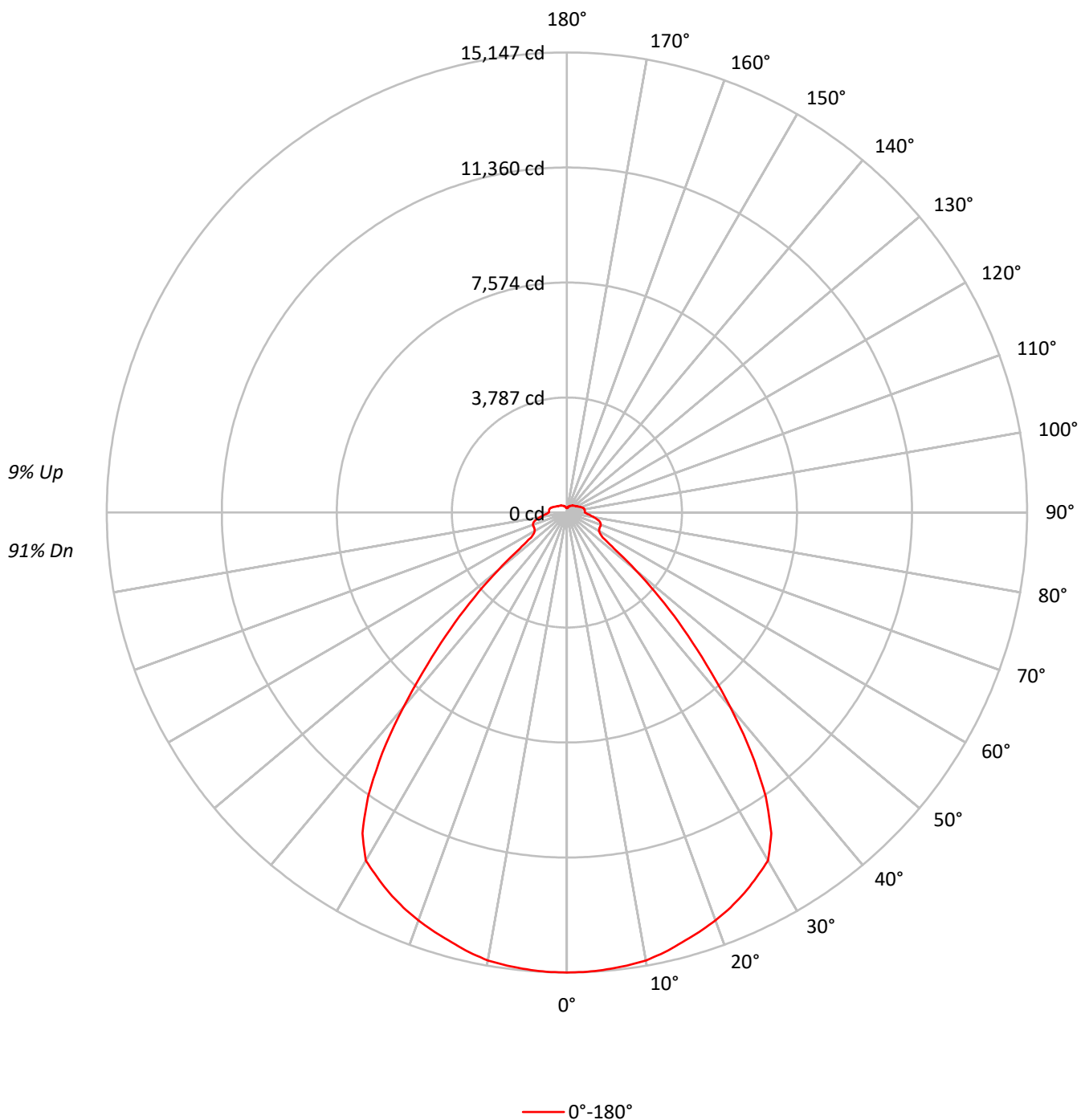
Lumens per Lamp: N/A
Luminaire Lumens: 30358.0 lumens
Efficiency: N/A
Efficacy: 155.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.18
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

Input Watts (W): 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				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°	95808
5°	92380
10°	89368
15°	85988
20°	83111
25°	80280
30°	77348
35°	67620
40°	50764
45°	33830
50°	19277
55°	9846
60°	8830
65°	9225
70°	10040
75°	10337
80°	9555
85°	8617

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 33830 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1437.6	4.7
10°-20°	4143.0	13.6
20°-30°	6372.7	21.0
30°-40°	6962.8	22.9
40°-50°	4206.4	13.9
50°-60°	1510.9	5.0
60°-70°	1186.0	3.9
70°-80°	1143.7	3.8
80°-90°	787.9	2.6
90°-100°	643.0	2.1
100°-110°	588.6	1.9
110°-120°	447.0	1.5
120°-130°	329.2	1.1
130°-140°	245.9	0.8
140°-150°	173.5	0.6
150°-160°	110.4	0.4
160°-170°	55.1	0.2
170°-180°	14.3	0.0
0°-30°	11953.3	39.4
0°-40°	18916.1	62.3
0°-60°	24633.4	81.1
0°-90°	27751.0	91.4
90°-120°	1678.5	5.5
90°-150°	2427.2	8.0
90°-180°	2607.0	8.6
0°-180°	30358.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15147	
5°	15100	###
15°	14653	4143
25°	13823	6373
35°	11409	6963
45°	5418	4206
55°	1444	1511
65°	1188	1186
75°	1106	1144
85°	706	620
90°	593	330
95°	588	481
105°	562	589
115°	447	447
125°	365	329
135°	318	246
145°	275	174
155°	238	110
165°	193	55
175°	146	14
180°	144	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	15147.4
2.5°	15138.0
5°	15100.4
7.5°	15051.0
10°	14975.7
12.5°	14834.5
15°	14653.4
17.5°	14481.7
20°	14291.1
22.5°	14077.0
25°	13823.0
27.5°	13533.6
30°	13234.9
32.5°	12524.4
35°	11409.4
37.5°	9979.1
40°	8379.4
42.5°	6789.2
45°	5417.7
47.5°	4138.0
50°	2968.8
52.5°	1959.6
55°	1444.4
57.5°	1298.6
60°	1220.9
62.5°	1197.4
65°	1188.0
67.5°	1190.3
70°	1188.0
72.5°	1162.1
75°	1105.7
77.5°	1013.9
80°	905.7
82.5°	799.8
85°	705.7
87.5°	635.2
90°	592.8
92.5°	588.1
95°	588.1
97.5°	590.5
100°	588.1
102.5°	578.7
105°	562.2
107.5°	536.4
110°	505.8

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	477.5
115°	447.0
117.5°	421.1
120°	399.9
122.5°	381.1
125°	364.6
127.5°	350.5
130°	338.8
132.5°	327.0
135°	317.6
137.5°	305.8
140°	296.4
142.5°	284.6
145°	275.2
147.5°	265.8
150°	256.4
152.5°	247.0
155°	237.6
157.5°	228.2
160°	216.4
162.5°	204.7
165°	192.9
167.5°	178.8
170°	164.7
172.5°	145.9
175°	145.9
177.5°	143.5
180°	143.5

(END OF REPORT)