

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: P980689

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

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-8)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-2436-M-L83065-LOW-6500K-FRR6
Description: UHBS2 LED High Bay at 6500K and LOW lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

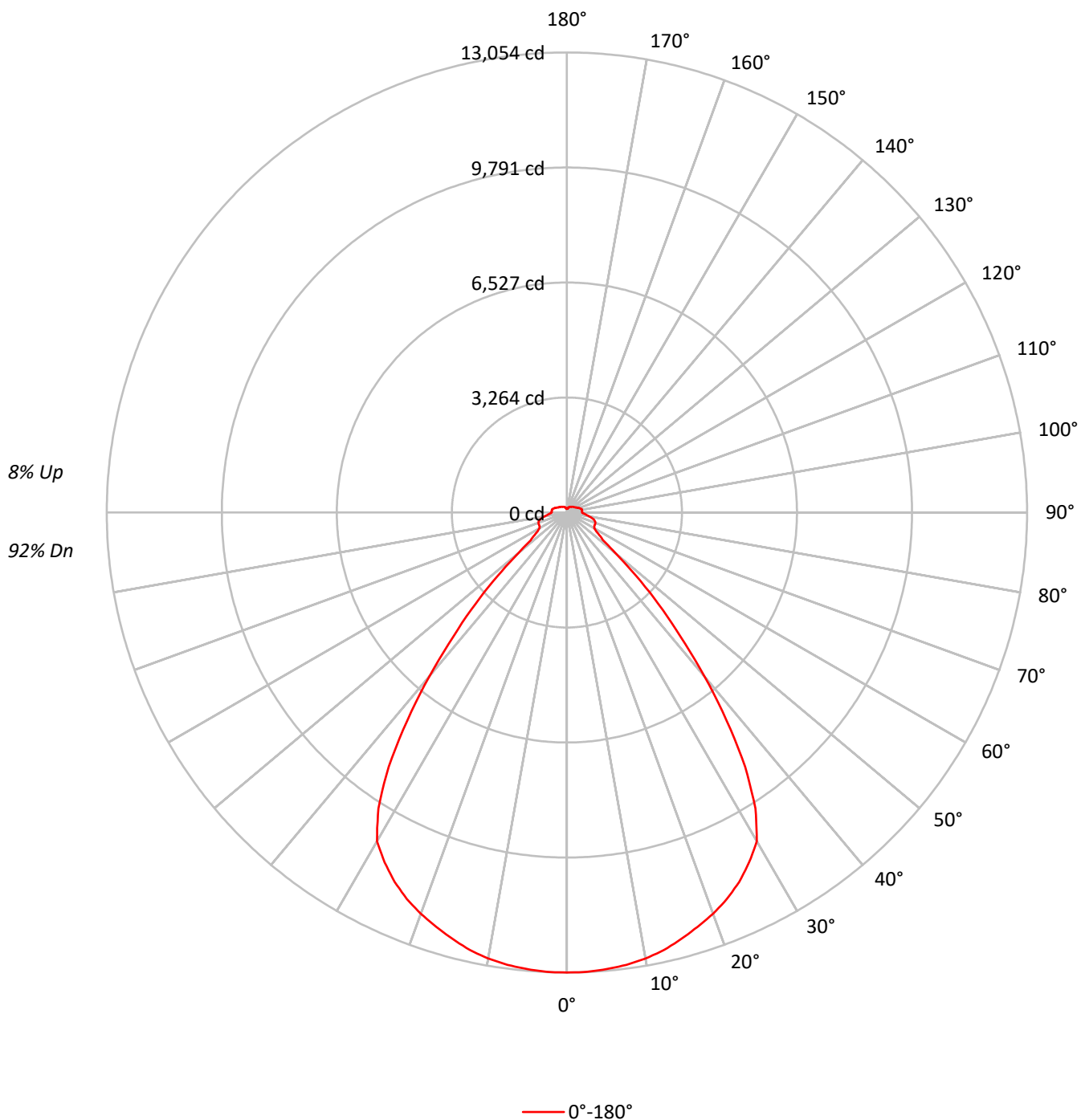
Lumens per Lamp: N/A
Luminaire Lumens: 23542.0 lumens
Efficiency: N/A
Efficacy: 152.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.13
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

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

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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	107	107	107		100	100	100		95
1	109	105	101	98	105	102	98	96	96	93	91		91	89	87		86
2	101	94	89	84	98	92	87	83	87	83	79		83	80	77		79
3	94	86	79	74	91	83	77	73	80	74	70		76	72	68		72
4	88	78	71	65	85	76	70	64	73	67	63		70	65	61		67
5	82	71	64	58	80	70	63	58	67	61	57		64	59	55		62
6	77	66	58	53	75	64	57	52	62	56	51		60	54	50		57
7	72	61	53	48	70	59	52	47	57	51	47		55	50	46		53
8	68	56	49	44	66	55	48	43	53	47	43		51	46	42		50
9	64	52	45	40	62	51	44	40	50	43	39		48	43	39		47
10	60	48	42	37	59	48	41	37	46	40	36		45	40	36		44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	82565
5°	79572
10°	76702
15°	73533
20°	70477
25°	67150
30°	62963
35°	52236
40°	36732
45°	22908
50°	11655
55°	7664
60°	6518
65°	6707
70°	7268
75°	7427
80°	6878
85°	6246

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22908 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1236.8	5.3
10°-20°	3536.6	15.0
20°-30°	5313.0	22.6
30°-40°	5380.2	22.9
40°-50°	2863.1	12.2
50°-60°	1058.3	4.5
60°-70°	864.6	3.7
70°-80°	823.5	3.5
80°-90°	569.5	2.4
90°-100°	471.5	2.0
100°-110°	430.6	1.8
110°-120°	323.6	1.4
120°-130°	237.6	1.0
130°-140°	177.5	0.8
140°-150°	125.5	0.5
150°-160°	79.8	0.3
160°-170°	39.8	0.2
170°-180°	10.3	0.0
0°-30°	10086.4	42.8
0°-40°	15466.6	65.7
0°-60°	19388.0	82.4
0°-90°	21645.6	91.9
90°-120°	1225.7	5.2
90°-150°	1766.4	7.5
90°-180°	1896.0	8.1
0°-180°	23542.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13054	
5°	13007	###
15°	12531	3537
25°	11562	5313
35°	8814	5380
45°	3669	2863
55°	1124	1058
65°	864	865
75°	794	824
85°	512	448
90°	431	240
95°	433	354
105°	410	431
115°	324	324
125°	262	238
135°	229	178
145°	199	126
155°	172	80
165°	139	40
175°	105	10
180°	103	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	13053.7
2.5°	13048.1
5°	13006.8
7.5°	12945.0
10°	12853.2
12.5°	12714.6
15°	12530.9
17.5°	12326.7
20°	12118.7
22.5°	11867.7
25°	11562.3
27.5°	11195.0
30°	10773.5
32.5°	9954.7
35°	8813.6
37.5°	7447.7
40°	6063.1
42.5°	4757.2
45°	3668.6
47.5°	2664.3
50°	1795.0
52.5°	1294.7
55°	1124.2
57.5°	981.8
60°	901.2
62.5°	875.0
65°	863.8
67.5°	865.6
70°	860.0
72.5°	839.4
75°	794.4
77.5°	727.0
80°	652.0
82.5°	577.1
85°	511.5
87.5°	459.0
90°	430.9
92.5°	429.1
95°	432.8
97.5°	434.7
100°	432.8
102.5°	425.3
105°	410.3
107.5°	391.6
110°	367.2

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	344.8
115°	324.1
117.5°	305.4
120°	288.5
122.5°	275.4
125°	262.3
127.5°	252.9
130°	245.4
132.5°	236.1
135°	228.6
137.5°	221.1
140°	213.6
142.5°	206.1
145°	198.6
147.5°	193.0
150°	185.5
152.5°	179.9
155°	172.4
157.5°	163.0
160°	155.5
162.5°	148.0
165°	138.6
167.5°	131.2
170°	118.0
172.5°	106.8
175°	104.9
177.5°	104.9
180°	103.1

(END OF REPORT)