

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: P980695

Luminaire Tested: UHBS2-2436-M-L83065-MID-3500K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980695
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-MID-3500K-FRR6
Description: UHBS2 LED High Bay at 3500K and MID lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

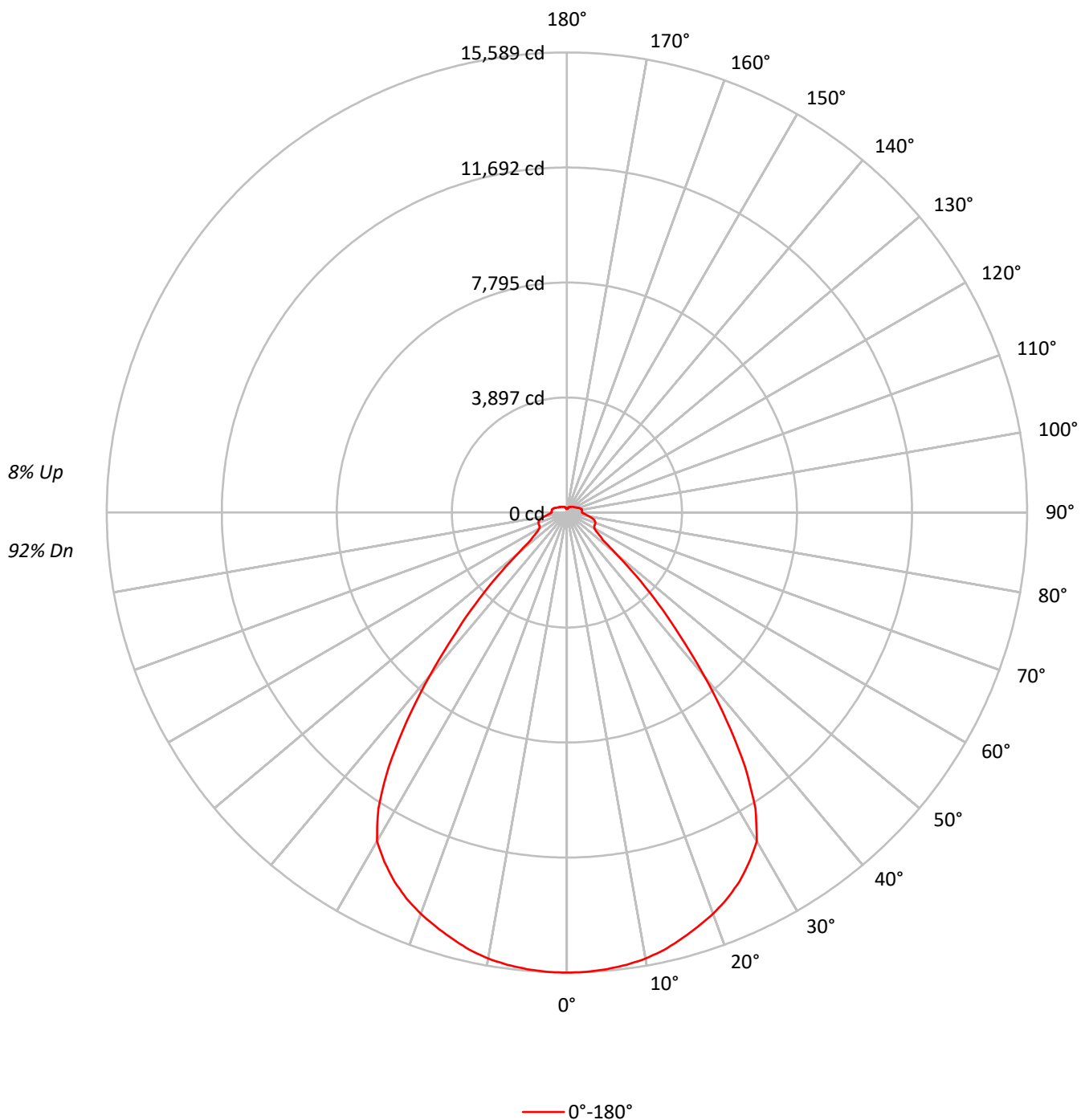
Lumens per Lamp: N/A
Luminaire Lumens: 28115.0 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.13
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

Input Watts (W): 192.4
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	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°	98603
5°	95029
10°	91601
15°	87818
20°	84167
25°	80194
30°	75193
35°	62383
40°	43867
45°	27358
50°	13919
55°	9152
60°	7784
65°	8009
70°	8680
75°	8869
80°	8215
85°	7459

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 27358 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1477.0	5.3
10°-20°	4223.6	15.0
20°-30°	6345.0	22.6
30°-40°	6425.4	22.9
40°-50°	3419.2	12.2
50°-60°	1263.9	4.5
60°-70°	1032.6	3.7
70°-80°	983.5	3.5
80°-90°	680.2	2.4
90°-100°	563.0	2.0
100°-110°	514.3	1.8
110°-120°	386.5	1.4
120°-130°	283.8	1.0
130°-140°	212.0	0.8
140°-150°	149.9	0.5
150°-160°	95.3	0.3
160°-170°	47.6	0.2
170°-180°	12.4	0.0
0°-30°	12045.6	42.8
0°-40°	18471.0	65.7
0°-60°	23154.1	82.4
0°-90°	25850.3	91.9
90°-120°	1463.8	5.2
90°-150°	2109.5	7.5
90°-180°	2265.0	8.1
0°-180°	28115.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15589	
5°	15533	###
15°	14965	4224
25°	13808	6345
35°	10526	6425
45°	4381	3419
55°	1343	1264
65°	1032	1033
75°	949	983
85°	611	535
90°	515	286
95°	517	422
105°	490	514
115°	387	386
125°	313	284
135°	273	212
145°	237	150
155°	206	95
165°	166	48
175°	125	12
180°	123	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	15589.3
2.5°	15582.6
5°	15533.4
7.5°	15459.6
10°	15349.9
12.5°	15184.3
15°	14965.1
17.5°	14721.2
20°	14472.8
22.5°	14172.9
25°	13808.2
27.5°	13369.6
30°	12866.2
32.5°	11888.4
35°	10525.7
37.5°	8894.5
40°	7240.9
42.5°	5681.3
45°	4381.2
47.5°	3181.9
50°	2143.6
52.5°	1546.2
55°	1342.6
57.5°	1172.5
60°	1076.3
62.5°	1045.0
65°	1031.5
67.5°	1033.8
70°	1027.1
72.5°	1002.4
75°	948.7
77.5°	868.2
80°	778.7
82.5°	689.2
85°	610.9
87.5°	548.2
90°	514.6
92.5°	512.4
95°	516.9
97.5°	519.1
100°	516.9
102.5°	507.9
105°	490.0
107.5°	467.7
110°	438.6



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	411.7
115°	387.1
117.5°	364.7
120°	344.6
122.5°	328.9
125°	313.3
127.5°	302.1
130°	293.1
132.5°	281.9
135°	273.0
137.5°	264.0
140°	255.1
142.5°	246.1
145°	237.2
147.5°	230.5
150°	221.5
152.5°	214.8
155°	205.9
157.5°	194.7
160°	185.7
162.5°	176.8
165°	165.6
167.5°	156.6
170°	141.0
172.5°	127.5
175°	125.3
177.5°	125.3
180°	123.1

(END OF REPORT)