

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: P980680

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

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980680
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-3500K-FRR6
Description: UHBS2 LED High Bay at 3500K and LOW lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

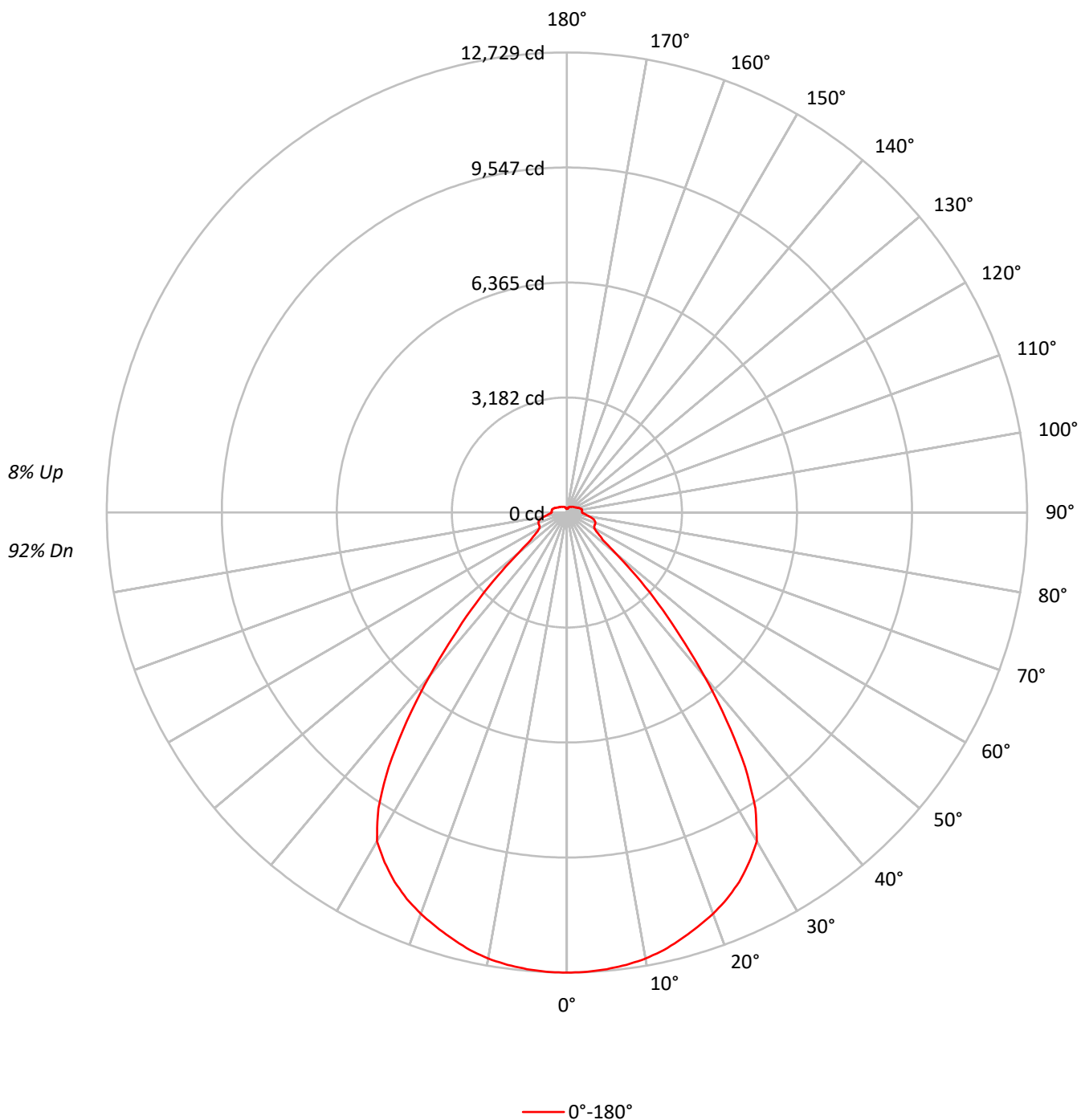
Lumens per Lamp: N/A
Luminaire Lumens: 22957.0 lumens
Efficiency: N/A
Efficacy: 148.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.13
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

Input Watts (W): 154.4
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	30	10	50	30	10
RCR																				
0	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	95	95	92
1	109	105	101	98	105	102	98	96	96	93	91	91	89	87	86	85	83	83	81	81
2	101	94	89	84	98	92	87	83	87	83	79	83	80	77	79	76	74	74	71	71
3	94	86	79	74	91	83	77	73	80	74	70	76	72	68	72	69	66	66	64	64
4	88	78	71	65	85	76	70	64	73	67	63	70	65	61	67	63	60	60	57	57
5	82	71	64	58	80	70	63	58	67	61	57	64	59	55	62	58	54	54	52	52
6	77	66	58	53	75	64	57	52	62	56	51	60	54	50	57	53	49	49	47	47
7	72	61	53	48	70	59	52	47	57	51	47	55	50	46	53	49	45	45	43	43
8	68	56	49	44	66	55	48	43	53	47	43	51	46	42	50	45	41	41	40	40
9	64	52	45	40	62	51	44	40	50	43	39	48	43	39	47	42	38	38	36	36
10	60	48	42	37	59	48	41	37	46	40	36	45	40	36	44	39	35	35	34	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	80514
5°	77595
10°	74796
15°	71707
20°	68726
25°	65481
30°	61398
35°	50938
40°	35819
45°	22339
50°	11365
55°	7473
60°	6356
65°	6540
70°	7087
75°	7242
80°	6707
85°	6091

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22339 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1206.1	5.3
10°-20°	3448.7	15.0
20°-30°	5180.9	22.6
30°-40°	5246.5	22.9
40°-50°	2791.9	12.2
50°-60°	1032.0	4.5
60°-70°	843.1	3.7
70°-80°	803.0	3.5
80°-90°	555.4	2.4
90°-100°	459.8	2.0
100°-110°	419.9	1.8
110°-120°	315.6	1.4
120°-130°	231.7	1.0
130°-140°	173.1	0.8
140°-150°	122.4	0.5
150°-160°	77.8	0.3
160°-170°	38.8	0.2
170°-180°	10.1	0.0
0°-30°	9835.7	42.8
0°-40°	15082.3	65.7
0°-60°	18906.2	82.4
0°-90°	21107.7	91.9
90°-120°	1195.3	5.2
90°-150°	1722.5	7.5
90°-180°	1849.0	8.1
0°-180°	22957.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12729	
5°	12684	###
15°	12220	3449
25°	11275	5181
35°	8595	5247
45°	3577	2792
55°	1096	1032
65°	842	843
75°	775	803
85°	499	436
90°	420	234
95°	422	345
105°	400	420
115°	316	316
125°	256	232
135°	223	173
145°	194	122
155°	168	78
165°	135	39
175°	102	10
180°	100	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	12729.3
2.5°	12723.8
5°	12683.6
7.5°	12623.3
10°	12533.8
12.5°	12398.6
15°	12219.6
17.5°	12020.4
20°	11817.6
22.5°	11572.8
25°	11274.9
27.5°	10916.8
30°	10505.7
32.5°	9707.3
35°	8594.6
37.5°	7262.7
40°	5912.5
42.5°	4639.0
45°	3577.4
47.5°	2598.1
50°	1750.3
52.5°	1262.5
55°	1096.3
57.5°	957.4
60°	878.8
62.5°	853.2
65°	842.3
67.5°	844.1
70°	838.6
72.5°	818.5
75°	774.7
77.5°	708.9
80°	635.8
82.5°	562.7
85°	498.8
87.5°	447.6
90°	420.2
92.5°	418.4
95°	422.1
97.5°	423.9
100°	422.1
102.5°	414.7
105°	400.1
107.5°	381.9
110°	358.1

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	336.2
115°	316.1
117.5°	297.8
120°	281.4
122.5°	268.6
125°	255.8
127.5°	246.7
130°	239.3
132.5°	230.2
135°	222.9
137.5°	215.6
140°	208.3
142.5°	201.0
145°	193.7
147.5°	188.2
150°	180.9
152.5°	175.4
155°	168.1
157.5°	159.0
160°	151.6
162.5°	144.3
165°	135.2
167.5°	127.9
170°	115.1
172.5°	104.1
175°	102.3
177.5°	102.3
180°	100.5

(END OF REPORT)