

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: P980668

Luminaire Tested: UHBS2-2436-M-L83065-HIGH-4000K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980668
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-HIGH-4000K-FRR6
Description: UHBS2 LED High Bay at 4000K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

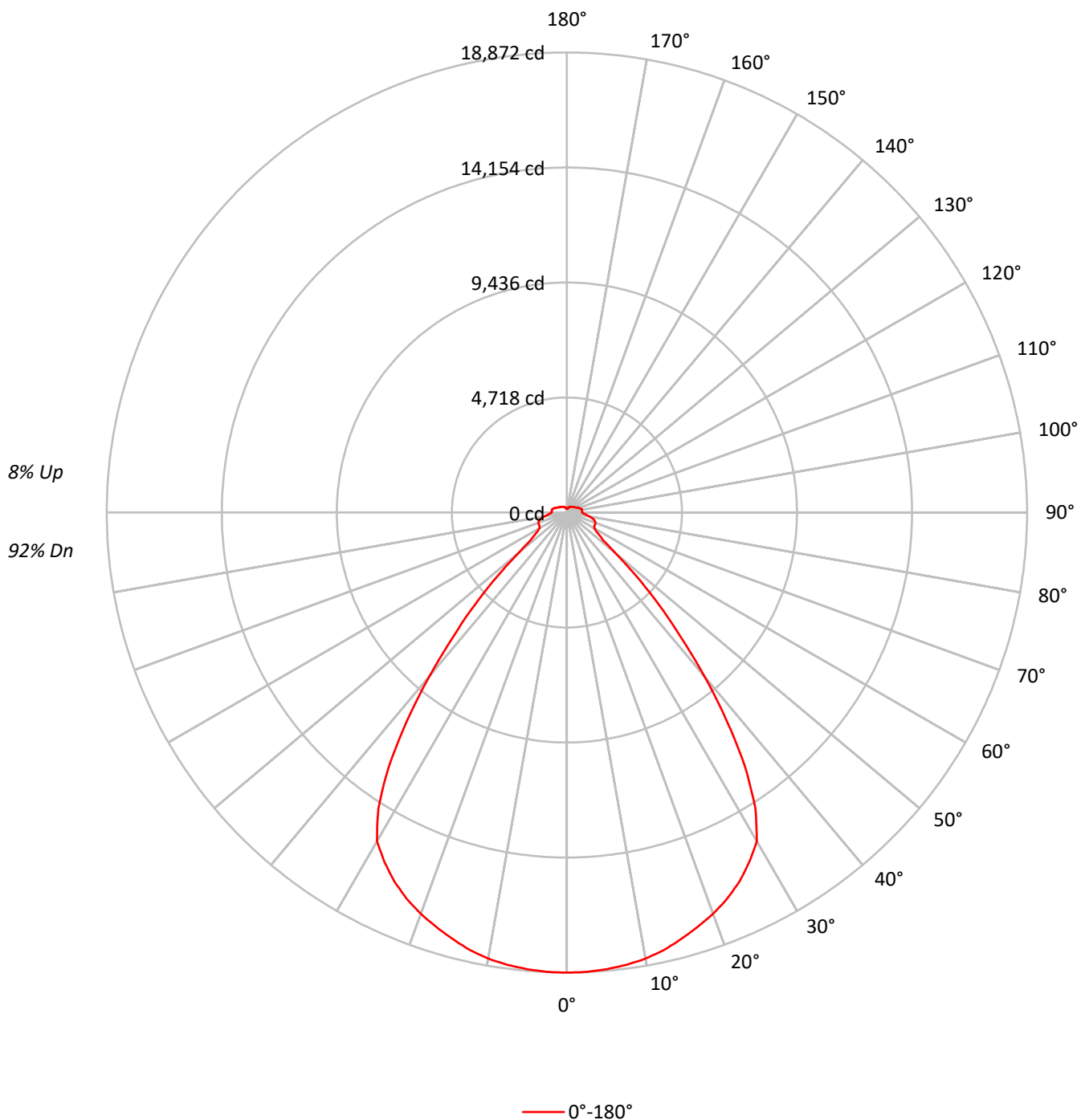
Lumens per Lamp: N/A
Luminaire Lumens: 34035.9 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.13
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

Input Watts (W): 232.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.999
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°	119369
5°	115042
10°	110893
15°	106312
20°	101893
25°	97082
30°	91029
35°	75520
40°	53105
45°	33120
50°	16851
55°	11080
60°	9423
65°	9697
70°	10508
75°	10737
80°	9945
85°	9030

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 33120 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1788.1	5.3
10°-20°	5113.1	15.0
20°-30°	7681.3	22.6
30°-40°	7778.5	22.9
40°-50°	4139.3	12.2
50°-60°	1530.0	4.5
60°-70°	1250.0	3.7
70°-80°	1190.6	3.5
80°-90°	823.4	2.4
90°-100°	681.6	2.0
100°-110°	622.6	1.8
110°-120°	467.9	1.4
120°-130°	343.5	1.0
130°-140°	256.7	0.8
140°-150°	181.5	0.5
150°-160°	115.3	0.3
160°-170°	57.6	0.2
170°-180°	15.0	0.0
0°-30°	14582.4	42.8
0°-40°	22361.0	65.7
0°-60°	28030.3	82.4
0°-90°	31294.3	91.9
90°-120°	1772.0	5.2
90°-150°	2553.7	7.5
90°-180°	2742.0	8.1
0°-180°	34035.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18872	
5°	18805	###
15°	18117	5113
25°	16716	7681
35°	12742	7779
45°	5304	4139
55°	1625	1530
65°	1249	1250
75°	1148	1191
85°	740	647
90°	623	347
95°	626	511
105°	593	623
115°	469	468
125°	379	344
135°	330	257
145°	287	181
155°	249	115
165°	200	58
175°	152	15
180°	149	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	18872.4
2.5°	18864.3
5°	18804.7
7.5°	18715.3
10°	18582.6
12.5°	18382.2
15°	18116.7
17.5°	17821.4
20°	17520.7
22.5°	17157.8
25°	16716.2
27.5°	16185.3
30°	15575.8
32.5°	14392.0
35°	12742.4
37.5°	10767.6
40°	8765.8
42.5°	6877.7
45°	5303.9
47.5°	3852.0
50°	2595.1
52.5°	1871.8
55°	1625.3
57.5°	1419.4
60°	1302.9
62.5°	1265.0
65°	1248.8
67.5°	1251.5
70°	1243.4
72.5°	1213.6
75°	1148.5
77.5°	1051.0
80°	942.7
82.5°	834.3
85°	739.5
87.5°	663.7
90°	623.0
92.5°	620.3
95°	625.7
97.5°	628.4
100°	625.7
102.5°	614.9
105°	593.2
107.5°	566.1
110°	530.9

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	498.4
115°	468.6
117.5°	441.5
120°	417.2
122.5°	398.2
125°	379.2
127.5°	365.7
130°	354.9
132.5°	341.3
135°	330.5
137.5°	319.6
140°	308.8
142.5°	298.0
145°	287.1
147.5°	279.0
150°	268.2
152.5°	260.0
155°	249.2
157.5°	235.7
160°	224.8
162.5°	214.0
165°	200.5
167.5°	189.6
170°	170.7
172.5°	154.4
175°	151.7
177.5°	151.7
180°	149.0

(END OF REPORT)