

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: P980730

Luminaire Tested: UHBS2-2436-N-L83065-MID-4000K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-9)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-2436-N-L83065-MID-4000K-FRR6
Description: UHBS2 LED High Bay at 4000K and MID lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

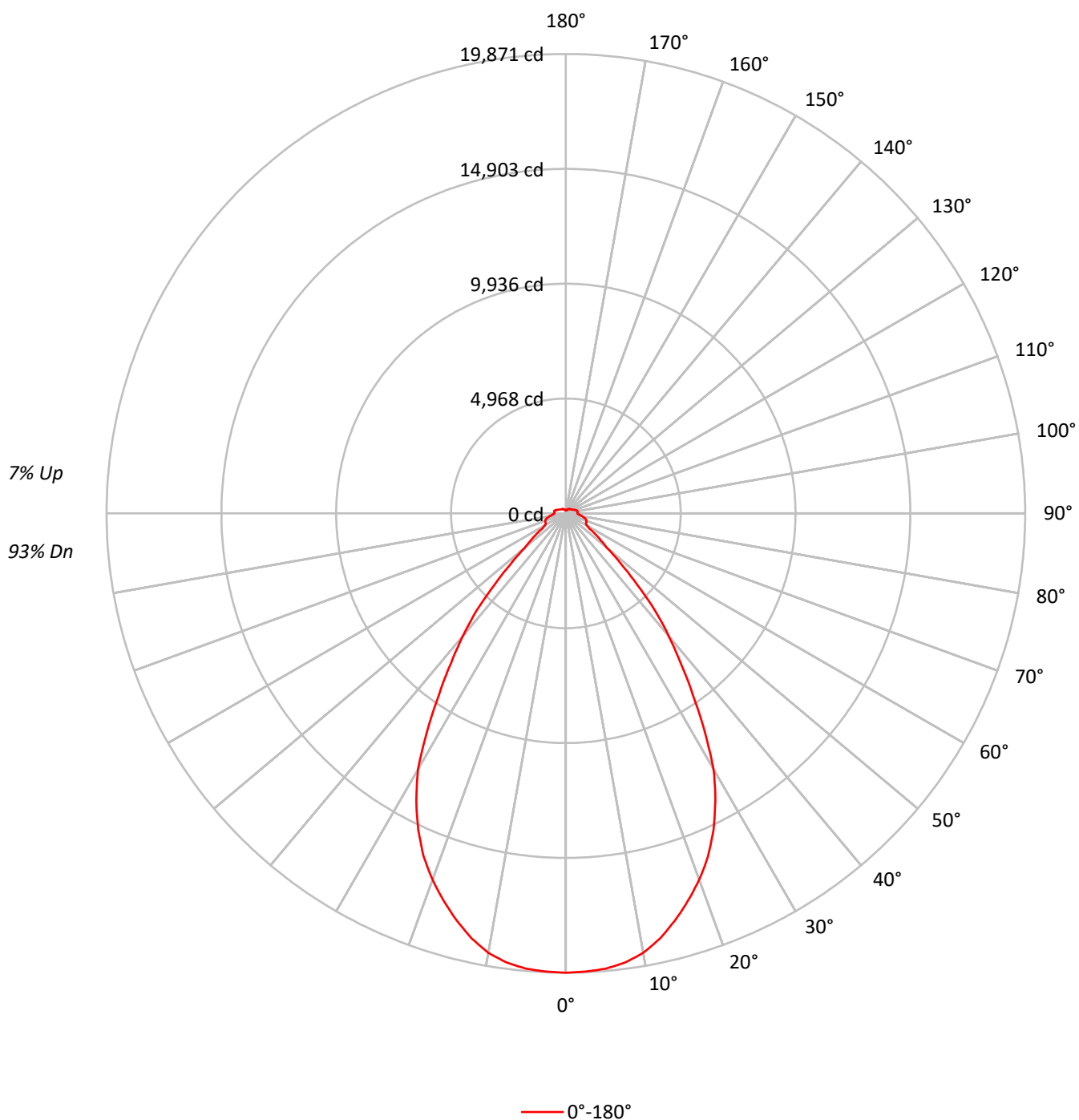
Lumens per Lamp: N/A
Luminaire Lumens: 29423.0 lumens
Efficiency: N/A
Efficacy: 154.9 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

Input Watts (W): 190
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	117	117	117	117	114	114	114	114	107	107	107		101	101	101		95	95	95	93
1	109	105	102	99	106	102	99	97	97	94	92		92	90	88		87	86	84	82
2	102	95	90	85	99	93	88	84	88	84	81		84	81	78		80	78	75	73
3	95	87	80	75	92	85	79	74	81	76	72		77	73	70		74	71	68	66
4	89	79	72	67	86	78	71	66	74	69	65		71	67	63		69	65	62	59
5	83	73	66	60	81	71	65	60	69	63	58		66	61	57		64	59	56	54
6	78	67	60	55	76	66	59	54	64	58	53		61	56	52		59	55	51	49
7	73	62	55	50	71	61	54	50	59	53	49		57	52	48		55	51	47	45
8	69	58	51	46	67	57	50	46	55	49	45		53	48	44		52	47	44	42
9	65	54	47	42	64	53	47	42	52	46	42		50	45	41		49	44	40	39
10	62	50	44	39	60	50	43	39	48	43	39		47	42	38		46	41	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	125686
5°	120934
10°	115176
15°	107008
20°	98096
25°	87750
30°	74733
35°	56734
40°	41946
45°	27277
50°	15124
55°	10429
60°	7543
65°	7448
70°	8045
75°	8117
80°	7473
85°	6967

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 27277 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1872.4	6.4
10°-20°	5118.1	17.4
20°-30°	6889.1	23.4
30°-40°	6013.7	20.4
40°-50°	3429.9	11.7
50°-60°	1402.6	4.8
60°-70°	967.3	3.3
70°-80°	901.6	3.1
80°-90°	635.0	2.2
90°-100°	552.8	1.9
100°-110°	506.4	1.7
110°-120°	371.4	1.3
120°-130°	268.8	0.9
130°-140°	201.1	0.7
140°-150°	143.1	0.5
150°-160°	91.4	0.3
160°-170°	46.0	0.2
170°-180°	12.2	0.0
0°-30°	13879.5	47.2
0°-40°	19893.3	67.6
0°-60°	24725.8	84.0
0°-90°	27229.7	92.5
90°-120°	1430.7	4.9
90°-150°	2043.8	6.9
90°-180°	2193.0	7.5
0°-180°	29423.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	19871	
5°	19768	###
15°	18235	5118
25°	15109	6889
35°	9573	6014
45°	4368	3430
55°	1530	1403
65°	959	967
75°	868	902
85°	571	496
90°	497	276
95°	507	416
105°	484	506
115°	371	371
125°	298	269
135°	258	201
145°	226	143
155°	197	91
165°	162	46
175°	125	12
180°	123	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	19871.1
2.5°	19839.1
5°	19767.8
7.5°	19600.5
10°	19300.4
12.5°	18833.1
15°	18235.4
17.5°	17571.4
20°	16867.9
22.5°	16066.1
25°	15109.3
27.5°	14009.9
30°	12787.4
32.5°	11161.6
35°	9572.7
37.5°	8163.4
40°	6923.8
42.5°	5733.3
45°	4368.2
47.5°	3246.7
50°	2329.2
52.5°	1903.7
55°	1529.9
57.5°	1185.5
60°	1042.9
62.5°	981.4
65°	959.2
67.5°	961.7
70°	951.9
72.5°	922.3
75°	868.2
77.5°	792.0
80°	708.4
82.5°	634.6
85°	570.6
87.5°	521.4
90°	496.8
92.5°	501.8
95°	506.7
97.5°	514.1
100°	511.6
102.5°	501.8
105°	484.5
107.5°	457.5
110°	428.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	398.5
115°	371.4
117.5°	346.8
120°	327.1
122.5°	312.4
125°	297.6
127.5°	285.3
130°	275.5
132.5°	268.1
135°	258.3
137.5°	250.9
140°	243.5
142.5°	236.1
145°	226.3
147.5°	218.9
150°	211.5
152.5°	204.1
155°	196.8
157.5°	189.4
160°	179.6
162.5°	169.7
165°	162.3
167.5°	150.0
170°	137.7
172.5°	125.4
175°	125.4
177.5°	123.0
180°	123.0

(END OF REPORT)