

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: P980773

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

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-2436-W-L83065-MID-4000K-FRR6
Description: UHBS2 LED High Bay at 4000K and MID lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

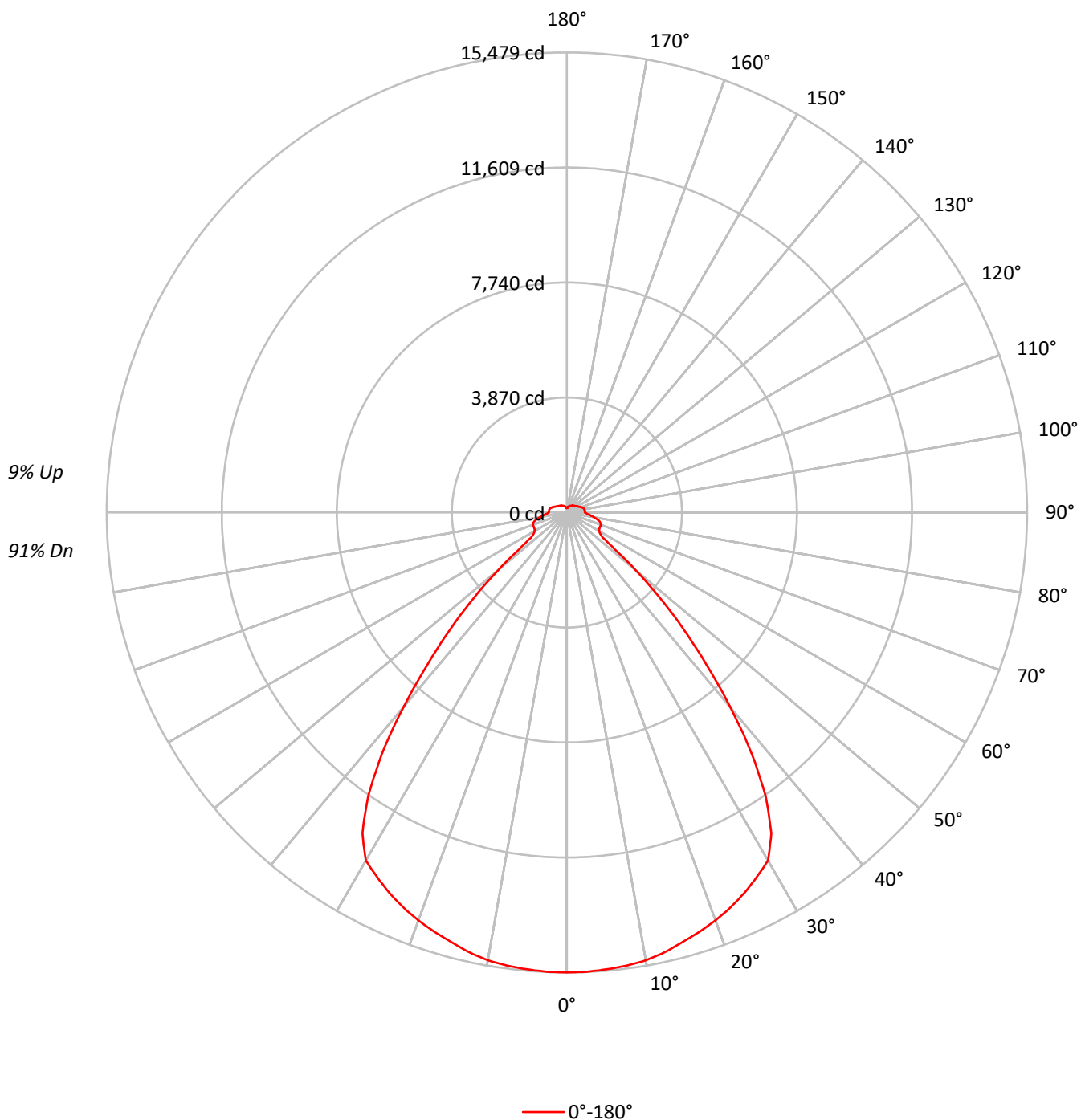
Lumens per Lamp: N/A
Luminaire Lumens: 31022.0 lumens
Efficiency: N/A
Efficacy: 163.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.18
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

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
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	106	106	106		100	100	100		94
1	108	104	101	97	105	101	98	95	95	93	90		90	88	86		85
2	100	94	88	83	97	91	86	81	86	82	78		82	78	75		78
3	93	85	78	72	90	82	76	71	78	73	69		75	70	67		71
4	87	77	69	64	84	75	68	63	72	66	61		68	63	60		65
5	81	70	62	57	78	68	61	56	66	59	55		63	58	53		60
6	76	64	57	51	73	63	56	50	60	54	49		58	53	48		56
7	71	59	51	46	69	58	51	46	56	49	45		54	48	44		52
8	66	55	47	42	64	53	46	42	52	45	41		50	44	40		48
9	62	50	43	38	61	50	43	38	48	42	37		46	41	37		45
10	59	47	40	35	57	46	39	35	45	39	34		43	38	34		42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	97904
5°	94400
10°	91323
15°	87869
20°	84929
25°	82035
30°	79040
35°	69099
40°	51875
45°	34570
50°	19699
55°	10062
60°	9023
65°	9426
70°	10260
75°	10562
80°	9764
85°	8806

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 34570 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1469.1	4.7
10°-20°	4233.6	13.6
20°-30°	6512.1	21.0
30°-40°	7115.1	22.9
40°-50°	4298.4	13.9
50°-60°	1544.0	5.0
60°-70°	1212.0	3.9
70°-80°	1168.7	3.8
80°-90°	805.1	2.6
90°-100°	657.0	2.1
100°-110°	601.5	1.9
110°-120°	456.7	1.5
120°-130°	336.4	1.1
130°-140°	251.3	0.8
140°-150°	177.4	0.6
150°-160°	112.8	0.4
160°-170°	56.3	0.2
170°-180°	14.6	0.0
0°-30°	12214.8	39.4
0°-40°	19329.8	62.3
0°-60°	25172.2	81.1
0°-90°	28358.0	91.4
90°-120°	1715.2	5.5
90°-150°	2480.4	8.0
90°-180°	2664.0	8.6
0°-180°	31022.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15479	
5°	15431	###
15°	14974	4234
25°	14125	6512
35°	11659	7115
45°	5536	4298
55°	1476	1544
65°	1214	1212
75°	1130	1169
85°	721	633
90°	606	337
95°	601	492
105°	574	601
115°	457	457
125°	373	336
135°	324	251
145°	281	177
155°	243	113
165°	197	56
175°	149	15
180°	147	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	15478.7
2.5°	15469.1
5°	15430.6
7.5°	15380.2
10°	15303.2
12.5°	15159.0
15°	14973.9
17.5°	14798.4
20°	14603.7
22.5°	14384.9
25°	14125.3
27.5°	13829.6
30°	13524.3
32.5°	12798.4
35°	11658.9
37.5°	10197.3
40°	8562.7
42.5°	6937.7
45°	5536.2
47.5°	4228.5
50°	3033.7
52.5°	2002.4
55°	1476.0
57.5°	1327.0
60°	1247.6
62.5°	1223.6
65°	1214.0
67.5°	1216.4
70°	1214.0
72.5°	1187.5
75°	1129.8
77.5°	1036.1
80°	925.5
82.5°	817.3
85°	721.2
87.5°	649.1
90°	605.8
92.5°	601.0
95°	601.0
97.5°	603.4
100°	601.0
102.5°	591.4
105°	574.5
107.5°	548.1
110°	516.8

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	488.0
115°	456.7
117.5°	430.3
120°	408.7
122.5°	389.4
125°	372.6
127.5°	358.2
130°	346.2
132.5°	334.1
135°	324.5
137.5°	312.5
140°	302.9
142.5°	290.9
145°	281.3
147.5°	271.6
150°	262.0
152.5°	252.4
155°	242.8
157.5°	233.2
160°	221.2
162.5°	209.1
165°	197.1
167.5°	182.7
170°	168.3
172.5°	149.0
175°	149.0
177.5°	146.6
180°	146.6

(END OF REPORT)