

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: P926786

Luminaire Tested: UHBS2-1218-N-L83065-HIGH-3500K

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2405-087-3)
Test Lab: INNOVATION CENTER
Issue Date: 12/6/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-N-L83065-HIGH-3500K
Description: UHBS2 LED High Bay at 3500K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

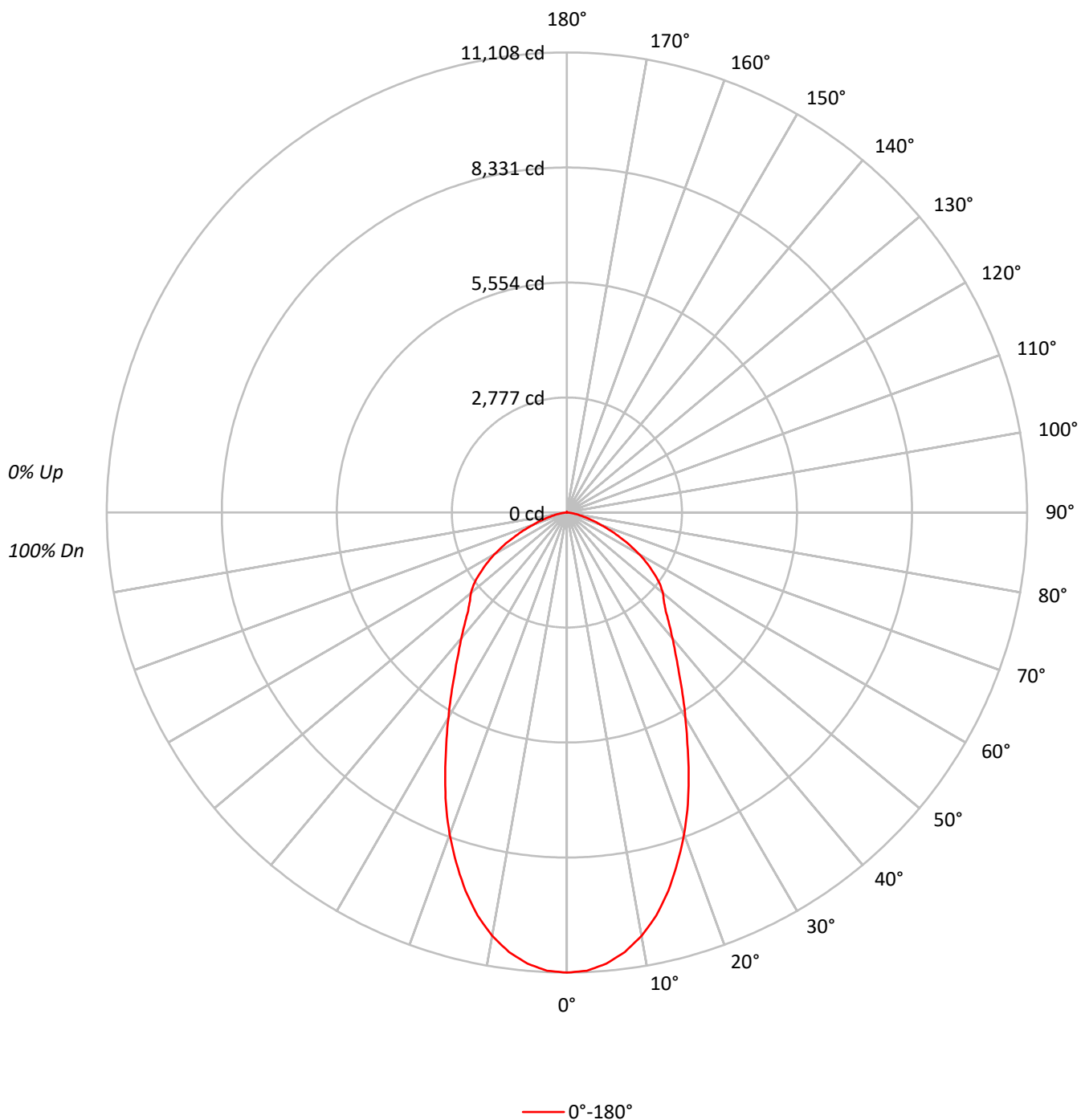
Lumens per Lamp: N/A
Luminaire Lumens: 16800.2 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 120.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 6.9
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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	105	101	98	100	98	95		96	94	92		93
2	102	95	89	85	100	93	88	84	90	86	82		87	83	80		84
3	94	85	78	73	92	84	77	72	81	75	71		78	74	70		76
4	88	77	69	63	85	76	69	63	73	67	62		71	66	61		69
5	81	70	62	56	79	69	61	56	67	60	55		65	59	55		63
6	76	64	56	50	74	63	55	50	61	55	50		60	54	49		58
7	71	59	51	45	69	58	50	45	56	50	45		55	49	45		54
8	67	54	47	41	65	54	46	41	52	46	41		51	45	41		50
9	63	50	43	38	61	50	43	38	49	42	38		48	42	37		47
10	59	47	40	35	58	46	39	35	46	39	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	152238
5°	148754
10°	141273
15°	129748
20°	115316
25°	99167
30°	84286
35°	72341
40°	64010
45°	58029
50°	56001
55°	51887
60°	45351
65°	36022
70°	26026
75°	17147
80°	10014
85°	4521

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 58029 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1026.1	6.1
10°-20°	2635.3	15.7
20°-30°	3190.4	19.0
30°-40°	2969.7	17.7
40°-50°	2641.1	15.7
50°-60°	2282.9	13.6
60°-70°	1410.9	8.4
70°-80°	532.1	3.2
80°-90°	94.7	0.6
90°-100°	2.4	0.0
100°-110°	1.5	0.0
110°-120°	1.4	0.0
120°-130°	1.7	0.0
130°-140°	2.1	0.0
140°-150°	2.2	0.0
150°-160°	2.6	0.0
160°-170°	2.1	0.0
170°-180°	0.9	0.0
0°-30°	6851.8	40.8
0°-40°	9821.6	58.5
0°-60°	14745.6	87.8
0°-90°	16783.2	99.9
90°-120°	5.3	0.0
90°-150°	11.3	0.1
90°-180°	17.0	0.1
0°-180°	16800.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11108	
5°	10933	###
15°	9457	2635
25°	6947	3190
35°	4709	2970
45°	3375	2641
55°	2566	2283
65°	1414	1411
75°	478	532
85°	71	89
90°	8	7
95°	1	1
105°	1	1
115°	1	1
125°	1	2
135°	3	2
145°	4	2
155°	5	3
165°	8	2
175°	10	1
180°	11	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	11108.2
2.5°	11075.6
5°	10933.1
7.5°	10702.4
10°	10379.4
12.5°	9966.8
15°	9456.6
17.5°	8873.0
20°	8273.1
22.5°	7629.8
25°	6947.2
27.5°	6302.6
30°	5717.6
32.5°	5189.7
35°	4709.3
37.5°	4308.9
40°	3960.1
42.5°	3650.7
45°	3375.2
47.5°	3174.4
50°	3025.1
52.5°	2828.3
55°	2566.4
57.5°	2300.4
60°	2019.4
62.5°	1718.1
65°	1414.1
67.5°	1134.6
70°	876.7
72.5°	662.3
75°	477.7
77.5°	333.9
80°	218.5
82.5°	134.4
85°	70.6
87.5°	29.9
90°	8.1
92.5°	1.4
95°	1.4
97.5°	1.4
100°	1.4
102.5°	1.4
105°	1.4
107.5°	1.4
110°	1.4



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.4
115°	1.4
117.5°	1.4
120°	1.4
122.5°	1.4
125°	1.4
127.5°	2.7
130°	2.7
132.5°	2.7
135°	2.7
137.5°	2.7
140°	2.7
142.5°	2.7
145°	4.1
147.5°	4.1
150°	4.1
152.5°	5.4
155°	5.4
157.5°	6.8
160°	6.8
162.5°	6.8
165°	8.1
167.5°	8.1
170°	8.1
172.5°	9.5
175°	9.5
177.5°	9.5
180°	10.9

(END OF REPORT)