

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P926788

Luminaire Tested: UHBS2-1218-N-L83065-HIGH-5000K

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926788
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-5000K
Description: UHBS2 LED High Bay at 5000K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

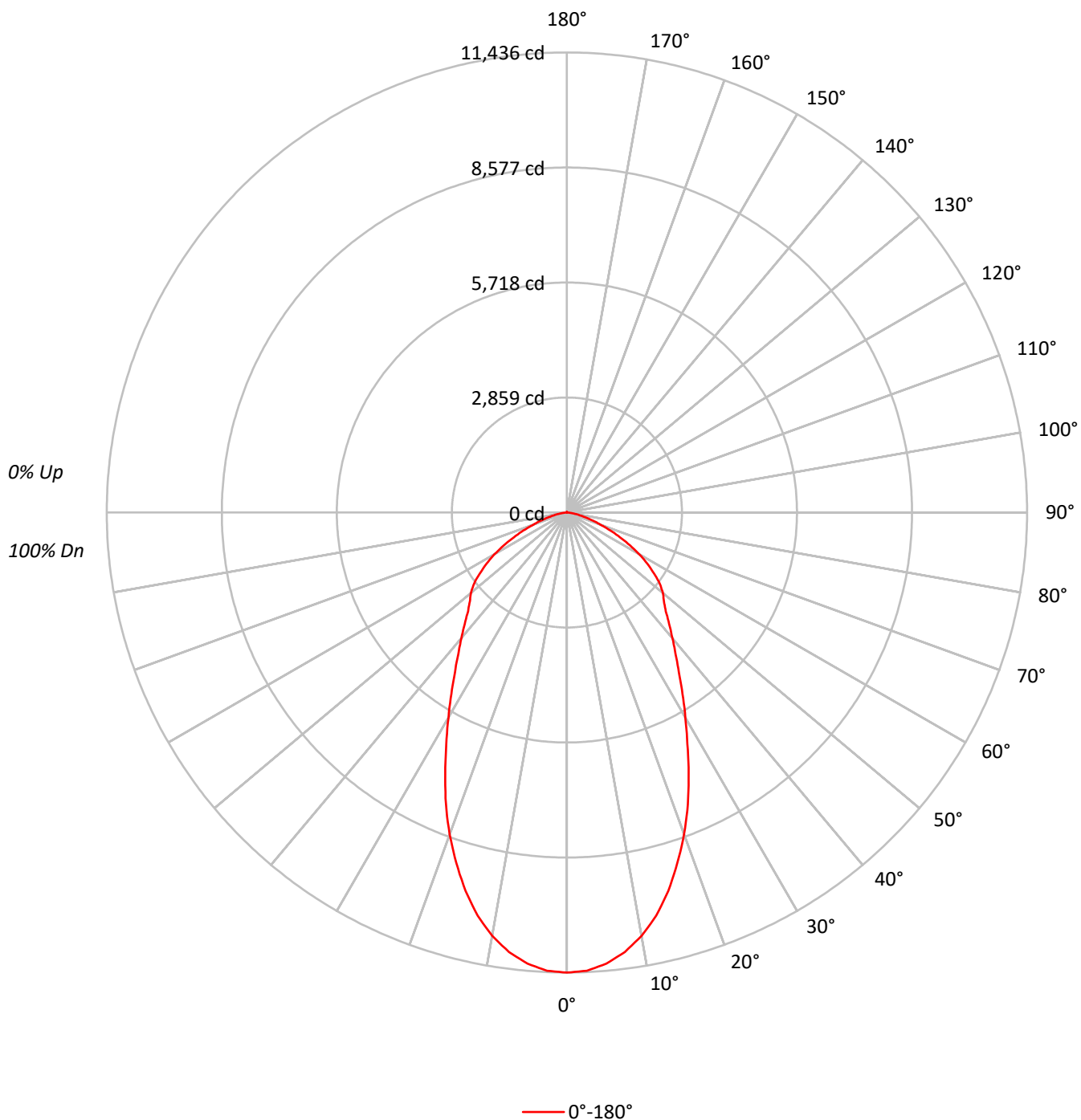
Lumens per Lamp: N/A
Luminaire Lumens: 17296.0 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 119.2
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°	156734
5°	153146
10°	145445
15°	133579
20°	118721
25°	102094
30°	86775
35°	74476
40°	65901
45°	59743
50°	57655
55°	53417
60°	46689
65°	37087
70°	26795
75°	17653
80°	10312
85°	4656

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 59743 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1056.4	6.1
10°-20°	2713.1	15.7
20°-30°	3284.6	19.0
30°-40°	3057.4	17.7
40°-50°	2719.1	15.7
50°-60°	2350.2	13.6
60°-70°	1452.6	8.4
70°-80°	547.8	3.2
80°-90°	97.5	0.6
90°-100°	2.5	0.0
100°-110°	1.5	0.0
110°-120°	1.4	0.0
120°-130°	1.7	0.0
130°-140°	2.2	0.0
140°-150°	2.3	0.0
150°-160°	2.7	0.0
160°-170°	2.2	0.0
170°-180°	0.9	0.0
0°-30°	7054.1	40.8
0°-40°	10111.5	58.5
0°-60°	15180.9	87.8
0°-90°	17278.7	99.9
90°-120°	5.4	0.0
90°-150°	11.5	0.1
90°-180°	17.0	0.1
0°-180°	17296.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11436	
5°	11256	###
15°	9736	2713
25°	7152	3285
35°	4848	3057
45°	3475	2719
55°	2642	2350
65°	1456	1453
75°	492	548
85°	73	92
90°	8	7
95°	1	1
105°	1	1
115°	1	1
125°	1	2
135°	3	2
145°	4	2
155°	6	3
165°	8	2
175°	10	1
180°	11	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	11436.2
2.5°	11402.6
5°	11255.9
7.5°	11018.4
10°	10685.9
12.5°	10261.1
15°	9735.8
17.5°	9135.0
20°	8517.4
22.5°	7855.1
25°	7152.3
27.5°	6488.6
30°	5886.4
32.5°	5342.9
35°	4848.3
37.5°	4436.1
40°	4077.1
42.5°	3758.5
45°	3474.9
47.5°	3268.1
50°	3114.4
52.5°	2911.8
55°	2642.1
57.5°	2368.3
60°	2079.0
62.5°	1768.9
65°	1455.9
67.5°	1168.1
70°	902.6
72.5°	681.8
75°	491.8
77.5°	343.7
80°	225.0
82.5°	138.3
85°	72.7
87.5°	30.7
90°	8.4
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°	2.8
130°	2.8
132.5°	2.8
135°	2.8
137.5°	2.8
140°	2.8
142.5°	2.8
145°	4.2
147.5°	4.2
150°	4.2
152.5°	5.6
155°	5.6
157.5°	7.0
160°	7.0
162.5°	7.0
165°	8.4
167.5°	8.4
170°	8.4
172.5°	9.8
175°	9.8
177.5°	9.8
180°	11.2

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	25.18	26.64	25.55	26.96	27.27	25.18	26.64	25.55	26.96	27.27
	3H	26.09	27.40	26.47	27.73	28.09	26.09	27.40	26.47	27.73	28.09
	4H	26.28	27.50	26.68	27.85	28.23	26.28	27.50	26.68	27.85	28.23
	6H	26.33	27.46	26.75	27.83	28.22	26.33	27.46	26.75	27.83	28.22
	8H	26.32	27.39	26.75	27.78	28.19	26.32	27.39	26.75	27.78	28.19
	12H	26.30	27.32	26.73	27.71	28.14	26.30	27.32	26.73	27.71	28.14
4H	2H	25.53	26.74	25.93	27.10	27.48	25.53	26.74	25.93	27.10	27.48
	3H	26.56	27.57	26.97	27.97	28.37	26.56	27.57	26.97	27.97	28.37
	4H	26.80	27.70	27.23	28.12	28.56	26.80	27.70	27.23	28.12	28.56
	6H	26.90	27.68	27.36	28.12	28.59	26.90	27.68	27.36	28.12	28.59
	8H	26.89	27.62	27.36	28.06	28.53	26.89	27.62	27.36	28.06	28.53
	12H	26.87	27.52	27.36	28.00	28.48	26.87	27.52	27.36	28.00	28.48
8H	4H	26.83	27.56	27.30	28.00	28.47	26.83	27.56	27.30	28.00	28.47
	6H	26.95	27.54	27.45	28.04	28.52	26.95	27.54	27.45	28.04	28.52
	8H	26.95	27.48	27.47	28.00	28.49	26.95	27.48	27.47	28.00	28.49
	12H	26.95	27.42	27.46	27.91	28.48	26.95	27.42	27.46	27.91	28.48
12H	4H	26.80	27.45	27.29	27.93	28.41	26.80	27.45	27.29	27.93	28.41
	6H	26.91	27.45	27.43	27.96	28.45	26.91	27.45	27.43	27.96	28.45
	8H	26.94	27.41	27.46	27.91	28.48	26.94	27.41	27.46	27.91	28.48