

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: P926789

Luminaire Tested: UHBS2-1218-N-L83065-HIGH-6500K

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926789
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-6500K
Description: UHBS2 LED High Bay at 6500K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

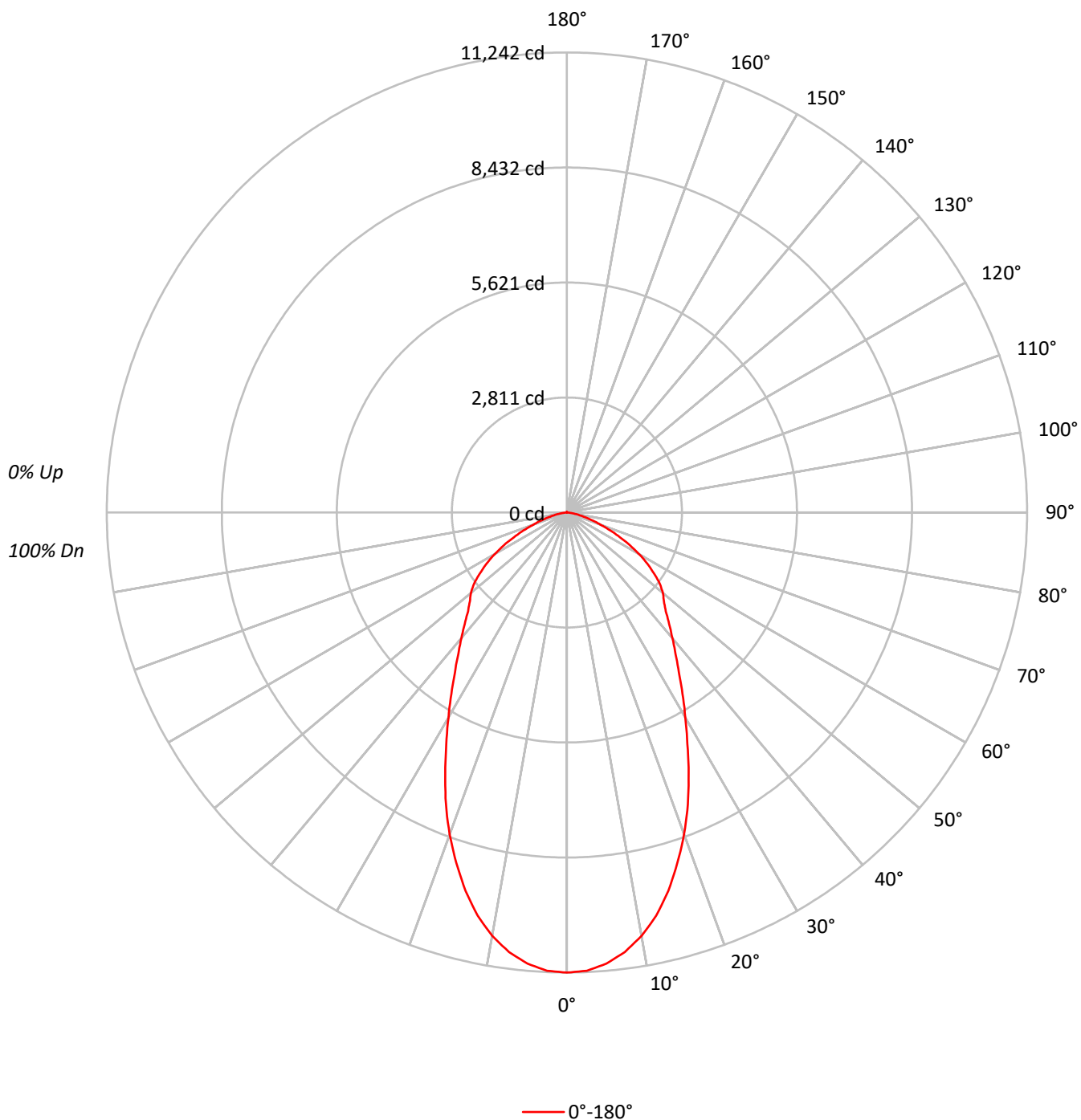
Lumens per Lamp: N/A
Luminaire Lumens: 17002.0 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 122.1
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°	154069
5°	150543
10°	142972
15°	131308
20°	116703
25°	100359
30°	85301
35°	73210
40°	64781
45°	58727
50°	56673
55°	52509
60°	45896
65°	36455
70°	26340
75°	17355
80°	10133
85°	4573

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 58727 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1038.4	6.1
10°-20°	2667.0	15.7
20°-30°	3228.8	19.0
30°-40°	3005.4	17.7
40°-50°	2672.9	15.7
50°-60°	2310.3	13.6
60°-70°	1427.9	8.4
70°-80°	538.5	3.2
80°-90°	95.8	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°	2.1	0.0
140°-150°	2.2	0.0
150°-160°	2.7	0.0
160°-170°	2.2	0.0
170°-180°	0.9	0.0
0°-30°	6934.2	40.8
0°-40°	9939.7	58.5
0°-60°	14922.8	87.8
0°-90°	16984.9	99.9
90°-120°	5.3	0.0
90°-150°	11.3	0.1
90°-180°	17.0	0.1
0°-180°	17002.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11242	
5°	11065	###
15°	9570	2667
25°	7031	3229
35°	4766	3005
45°	3416	2673
55°	2597	2310
65°	1431	1428
75°	484	538
85°	71	91
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°	11241.8
2.5°	11208.8
5°	11064.6
7.5°	10831.1
10°	10504.2
12.5°	10086.7
15°	9570.3
17.5°	8979.7
20°	8372.6
22.5°	7721.6
25°	7030.7
27.5°	6378.3
30°	5786.4
32.5°	5252.1
35°	4765.9
37.5°	4360.7
40°	4007.8
42.5°	3694.6
45°	3415.8
47.5°	3212.5
50°	3061.4
52.5°	2862.3
55°	2597.2
57.5°	2328.0
60°	2043.7
62.5°	1738.8
65°	1431.1
67.5°	1148.2
70°	887.3
72.5°	670.2
75°	483.5
77.5°	337.9
80°	221.1
82.5°	136.0
85°	71.4
87.5°	30.2
90°	8.2
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°	5.5
155°	5.5
157.5°	6.9
160°	6.9
162.5°	6.9
165°	8.2
167.5°	8.2
170°	8.2
172.5°	9.6
175°	9.6
177.5°	9.6
180°	11.0

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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	25.12	26.58	25.49	26.90	27.21	25.12	26.58	25.49	26.90	27.21
	3H	26.03	27.34	26.41	27.67	28.03	26.03	27.34	26.41	27.67	28.03
	4H	26.22	27.44	26.62	27.79	28.17	26.22	27.44	26.62	27.79	28.17
	6H	26.27	27.40	26.69	27.77	28.16	26.27	27.40	26.69	27.77	28.16
	8H	26.26	27.33	26.69	27.72	28.13	26.26	27.33	26.69	27.72	28.13
	12H	26.24	27.26	26.67	27.65	28.08	26.24	27.26	26.67	27.65	28.08
4H	2H	25.47	26.68	25.87	27.04	27.42	25.47	26.68	25.87	27.04	27.42
	3H	26.50	27.51	26.91	27.91	28.31	26.50	27.51	26.91	27.91	28.31
	4H	26.74	27.64	27.17	28.06	28.50	26.74	27.64	27.17	28.06	28.50
	6H	26.84	27.62	27.30	28.06	28.53	26.84	27.62	27.30	28.06	28.53
	8H	26.83	27.56	27.30	28.00	28.48	26.83	27.56	27.30	28.00	28.48
	12H	26.81	27.46	27.30	27.94	28.42	26.81	27.46	27.30	27.94	28.42
8H	4H	26.77	27.50	27.24	27.94	28.41	26.77	27.50	27.24	27.94	28.41
	6H	26.89	27.48	27.39	27.98	28.46	26.89	27.48	27.39	27.98	28.46
	8H	26.89	27.43	27.41	27.94	28.43	26.89	27.43	27.41	27.94	28.43
	12H	26.89	27.36	27.40	27.85	28.42	26.89	27.36	27.40	27.85	28.42
12H	4H	26.74	27.39	27.23	27.87	28.35	26.74	27.39	27.23	27.87	28.35
	6H	26.85	27.39	27.37	27.90	28.39	26.85	27.39	27.37	27.90	28.39
	8H	26.88	27.35	27.40	27.85	28.42	26.88	27.35	27.40	27.85	28.42

END OF REPORT