

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: P926787

Luminaire Tested: UHBS2-1218-N-L83065-HIGH-4000K

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926787
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-4000K
Description: UHBS2 LED High Bay at 4000K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

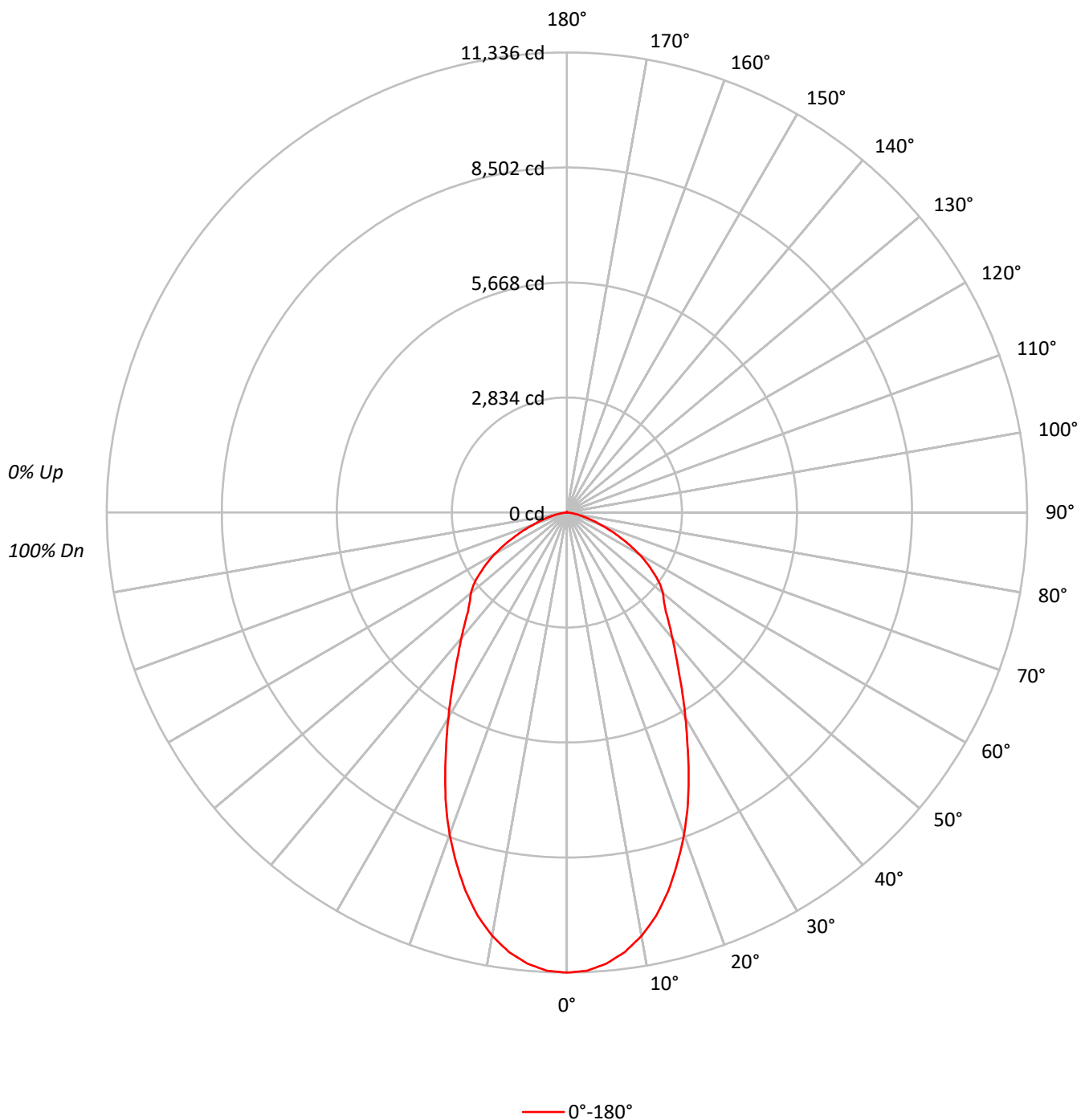
Lumens per Lamp: N/A
Luminaire Lumens: 17145.1 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 119.1
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°	155364
5°	151810
10°	144175
15°	132413
20°	117684
25°	101204
30°	86018
35°	73826
40°	65326
45°	59221
50°	57151
55°	52952
60°	46283
65°	36763
70°	26560
75°	17499
80°	10220
85°	4611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 59221 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1047.1	6.1
10°-20°	2689.5	15.7
20°-30°	3256.0	19.0
30°-40°	3030.7	17.7
40°-50°	2695.4	15.7
50°-60°	2329.7	13.6
60°-70°	1439.9	8.4
70°-80°	543.0	3.2
80°-90°	96.6	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°	6992.5	40.8
0°-40°	10023.3	58.5
0°-60°	15048.4	87.8
0°-90°	17127.9	99.9
90°-120°	5.3	0.0
90°-150°	11.5	0.1
90°-180°	17.0	0.1
0°-180°	17145.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11336	
5°	11158	###
15°	9651	2689
25°	7090	3256
35°	4806	3031
45°	3444	2695
55°	2619	2330
65°	1443	1440
75°	488	543
85°	72	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°	11336.3
2.5°	11303.1
5°	11157.7
7.5°	10922.2
10°	10592.6
12.5°	10171.5
15°	9650.8
17.5°	9055.2
20°	8443.0
22.5°	7786.5
25°	7089.9
27.5°	6432.0
30°	5835.1
32.5°	5296.3
35°	4806.0
37.5°	4397.4
40°	4041.5
42.5°	3725.7
45°	3444.5
47.5°	3239.5
50°	3087.2
52.5°	2886.4
55°	2619.1
57.5°	2347.6
60°	2060.9
62.5°	1753.4
65°	1443.2
67.5°	1157.9
70°	894.7
72.5°	675.9
75°	487.5
77.5°	340.7
80°	223.0
82.5°	137.1
85°	72.0
87.5°	30.5
90°	8.3
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°	5.5
155°	5.5
157.5°	6.9
160°	6.9
162.5°	6.9
165°	8.3
167.5°	8.3
170°	8.3
172.5°	9.7
175°	9.7
177.5°	9.7
180°	11.1

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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	25.15	26.61	25.52	26.93	27.24	25.15	26.61	25.52	26.93	27.24
	3H	26.06	27.36	26.44	27.70	28.06	26.06	27.36	26.44	27.70	28.06
	4H	26.25	27.47	26.65	27.82	28.20	26.25	27.47	26.65	27.82	28.20
	6H	26.30	27.43	26.72	27.80	28.19	26.30	27.43	26.72	27.80	28.19
	8H	26.29	27.36	26.72	27.75	28.16	26.29	27.36	26.72	27.75	28.16
	12H	26.27	27.29	26.70	27.68	28.11	26.27	27.29	26.70	27.68	28.11
4H	2H	25.50	26.71	25.90	27.06	27.45	25.50	26.71	25.90	27.06	27.45
	3H	26.53	27.53	26.94	27.94	28.34	26.53	27.53	26.94	27.94	28.34
	4H	26.77	27.67	27.20	28.08	28.53	26.77	27.67	27.20	28.08	28.53
	6H	26.87	27.64	27.33	28.09	28.56	26.87	27.64	27.33	28.09	28.56
	8H	26.86	27.59	27.33	28.03	28.50	26.86	27.59	27.33	28.03	28.50
	12H	26.84	27.49	27.33	27.97	28.45	26.84	27.49	27.33	27.97	28.45
8H	4H	26.80	27.52	27.27	27.97	28.44	26.80	27.52	27.27	27.97	28.44
	6H	26.92	27.51	27.42	28.01	28.49	26.92	27.51	27.42	28.01	28.49
	8H	26.92	27.45	27.44	27.97	28.46	26.92	27.45	27.44	27.97	28.46
	12H	26.92	27.39	27.43	27.88	28.45	26.92	27.39	27.43	27.88	28.45
12H	4H	26.77	27.42	27.26	27.90	28.38	26.77	27.42	27.26	27.90	28.38
	6H	26.88	27.42	27.40	27.93	28.42	26.88	27.42	27.40	27.93	28.42
	8H	26.91	27.38	27.43	27.88	28.45	26.91	27.38	27.43	27.88	28.45