

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: P978846

Luminaire Tested: UHBS2-1218-M-L83065-HIGH-3000K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2405-087-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/27/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-M-L83065-HIGH-3000K
Description: UHBS2 LED High Bay at 3000K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

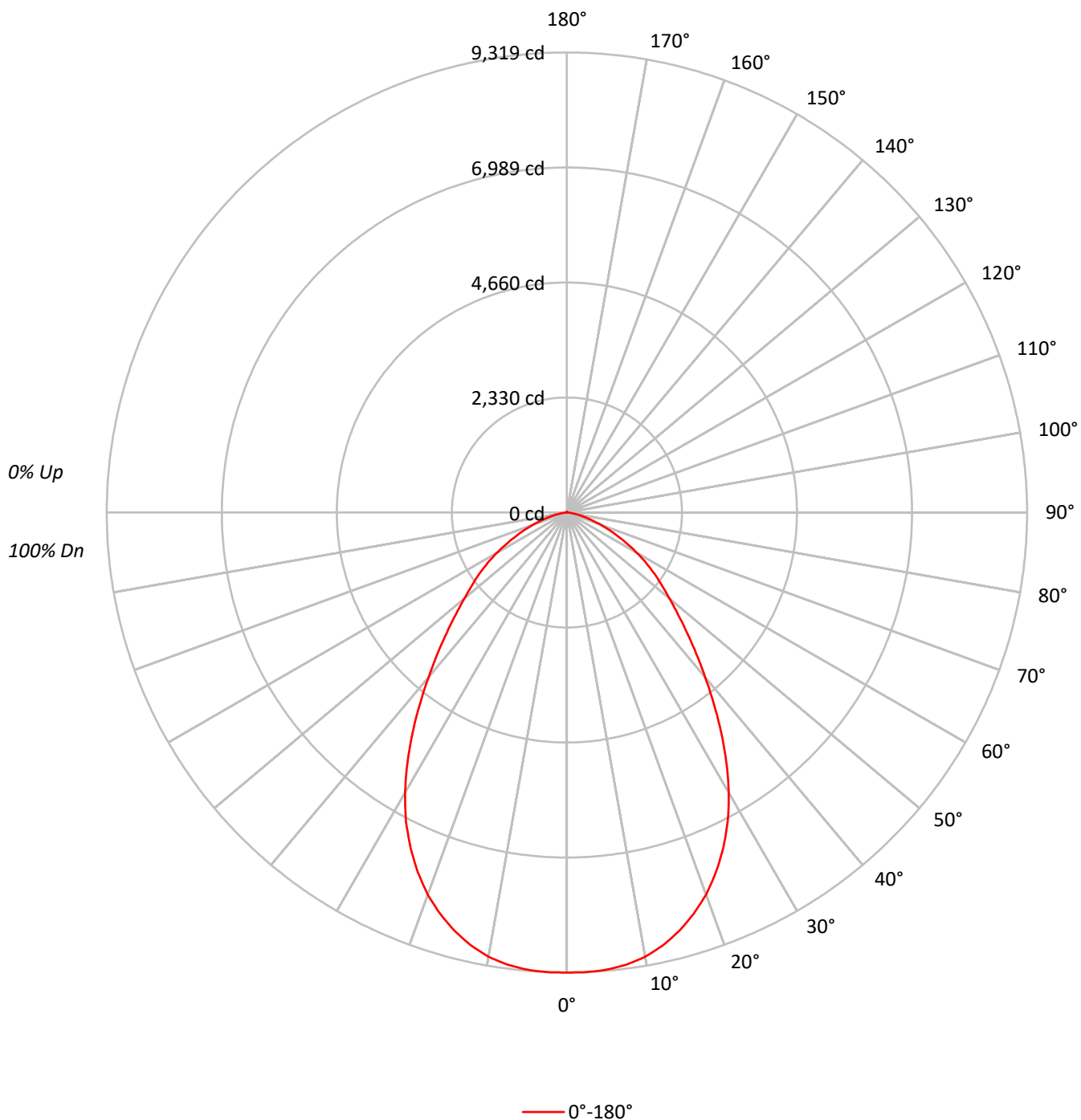
Lumens per Lamp: N/A
Luminaire Lumens: 16459.1 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 122
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	104	101	108	105	102	99	101	98	96		97	95	93		93
2	103	96	90	86	100	94	89	85	91	86	83		88	84	81		85
3	95	86	79	74	93	85	78	73	82	77	72		79	75	71		77
4	88	78	70	65	86	77	70	64	74	68	63		72	67	63		70
5	82	71	63	57	80	70	62	57	68	61	56		66	60	56		64
6	76	65	57	51	75	64	56	51	62	56	51		61	55	50		59
7	71	59	52	46	70	59	51	46	57	51	46		56	50	45		55
8	67	55	47	42	66	54	47	42	53	46	42		52	46	41		51
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	127715
5°	126476
10°	124386
15°	120427
20°	114829
25°	106945
30°	96640
35°	83708
40°	70364
45°	59031
50°	50105
55°	43694
60°	36835
65°	29068
70°	21920
75°	14498
80°	7961
85°	3132

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 59031 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	882.3	5.4
10°-20°	2465.5	15.0
20°-30°	3429.5	20.8
30°-40°	3397.2	20.6
40°-50°	2670.7	16.2
50°-60°	1933.2	11.7
60°-70°	1148.2	7.0
70°-80°	446.4	2.7
80°-90°	70.3	0.4
90°-100°	2.1	0.0
100°-110°	1.4	0.0
110°-120°	1.3	0.0
120°-130°	1.3	0.0
130°-140°	2.0	0.0
140°-150°	2.3	0.0
150°-160°	2.5	0.0
160°-170°	2.0	0.0
170°-180°	0.8	0.0
0°-30°	6777.3	41.2
0°-40°	10174.6	61.8
0°-60°	14778.4	89.8
0°-90°	16443.4	99.9
90°-120°	4.8	0.0
90°-150°	10.4	0.1
90°-180°	16.0	0.1
0°-180°	16459.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9319	
5°	9296	882
15°	8777	2465
25°	7492	3430
35°	5449	3397
45°	3434	2671
55°	2161	1933
65°	1141	1148
75°	404	446
85°	49	67
90°	6	5
95°	1	1
105°	1	1
115°	1	1
125°	1	1
135°	3	2
145°	4	2
155°	5	2
165°	8	2
175°	9	1
180°	9	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	9318.8
2.5°	9318.8
5°	9295.7
7.5°	9237.8
10°	9138.7
12.5°	8979.2
15°	8777.2
17.5°	8529.0
20°	8238.2
22.5°	7888.3
25°	7492.1
27.5°	7056.0
30°	6555.6
32.5°	6014.0
35°	5449.3
37.5°	4887.1
40°	4353.2
42.5°	3874.7
45°	3433.5
47.5°	3046.2
50°	2706.6
52.5°	2423.6
55°	2161.2
57.5°	1901.3
60°	1640.2
62.5°	1381.6
65°	1141.1
67.5°	937.8
70°	738.4
72.5°	559.6
75°	403.9
77.5°	276.6
80°	173.7
82.5°	99.1
85°	48.9
87.5°	20.6
90°	6.4
92.5°	1.3
95°	1.3
97.5°	1.3
100°	1.3
102.5°	1.3
105°	1.3
107.5°	1.3
110°	1.3



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.3
115°	1.3
117.5°	1.3
120°	1.3
122.5°	1.3
125°	1.3
127.5°	1.3
130°	2.6
132.5°	2.6
135°	2.6
137.5°	2.6
140°	2.6
142.5°	3.9
145°	3.9
147.5°	3.9
150°	3.9
152.5°	5.1
155°	5.1
157.5°	6.4
160°	6.4
162.5°	6.4
165°	7.7
167.5°	7.7
170°	7.7
172.5°	7.7
175°	9.0
177.5°	9.0
180°	9.0

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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	23.88	25.29	24.25	25.61	25.92	23.88	25.29	24.25	25.61	25.92
	3H	24.80	26.06	25.18	26.39	26.76	24.80	26.06	25.18	26.39	26.76
	4H	25.00	26.17	25.40	26.52	26.91	25.00	26.17	25.40	26.52	26.91
	6H	25.05	26.13	25.46	26.50	26.89	25.05	26.13	25.46	26.50	26.89
	8H	25.03	26.05	25.46	26.45	26.85	25.03	26.05	25.46	26.45	26.85
	12H	25.00	25.98	25.44	26.37	26.80	25.00	25.98	25.44	26.37	26.80
4H	2H	24.20	25.37	24.60	25.72	26.10	24.20	25.37	24.60	25.72	26.10
	3H	25.25	26.22	25.67	26.62	27.03	25.25	26.22	25.67	26.62	27.03
	4H	25.50	26.36	25.94	26.78	27.23	25.50	26.36	25.94	26.78	27.23
	6H	25.59	26.34	26.05	26.78	27.25	25.59	26.34	26.05	26.78	27.25
	8H	25.57	26.27	26.04	26.72	27.19	25.57	26.27	26.04	26.72	27.19
	12H	25.55	26.17	26.04	26.65	27.12	25.55	26.17	26.04	26.65	27.12
8H	4H	25.53	26.22	26.00	26.67	27.14	25.53	26.22	26.00	26.67	27.14
	6H	25.63	26.20	26.14	26.70	27.18	25.63	26.20	26.14	26.70	27.18
	8H	25.63	26.13	26.15	26.65	27.14	25.63	26.13	26.15	26.65	27.14
	12H	25.61	26.06	26.13	26.56	27.13	25.61	26.06	26.13	26.56	27.13
12H	4H	25.50	26.11	25.98	26.60	27.07	25.50	26.11	25.98	26.60	27.07
	6H	25.60	26.10	26.12	26.62	27.11	25.60	26.10	26.12	26.62	27.11
	8H	25.61	26.06	26.12	26.55	27.13	25.61	26.06	26.12	26.55	27.13