

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: P978883

Luminaire Tested: UHBS2-1218-W-L83065-LOW-4000K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2405-087-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/27/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-W-L83065-LOW-4000K
Description: UHBS2 LED High Bay at 4000K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

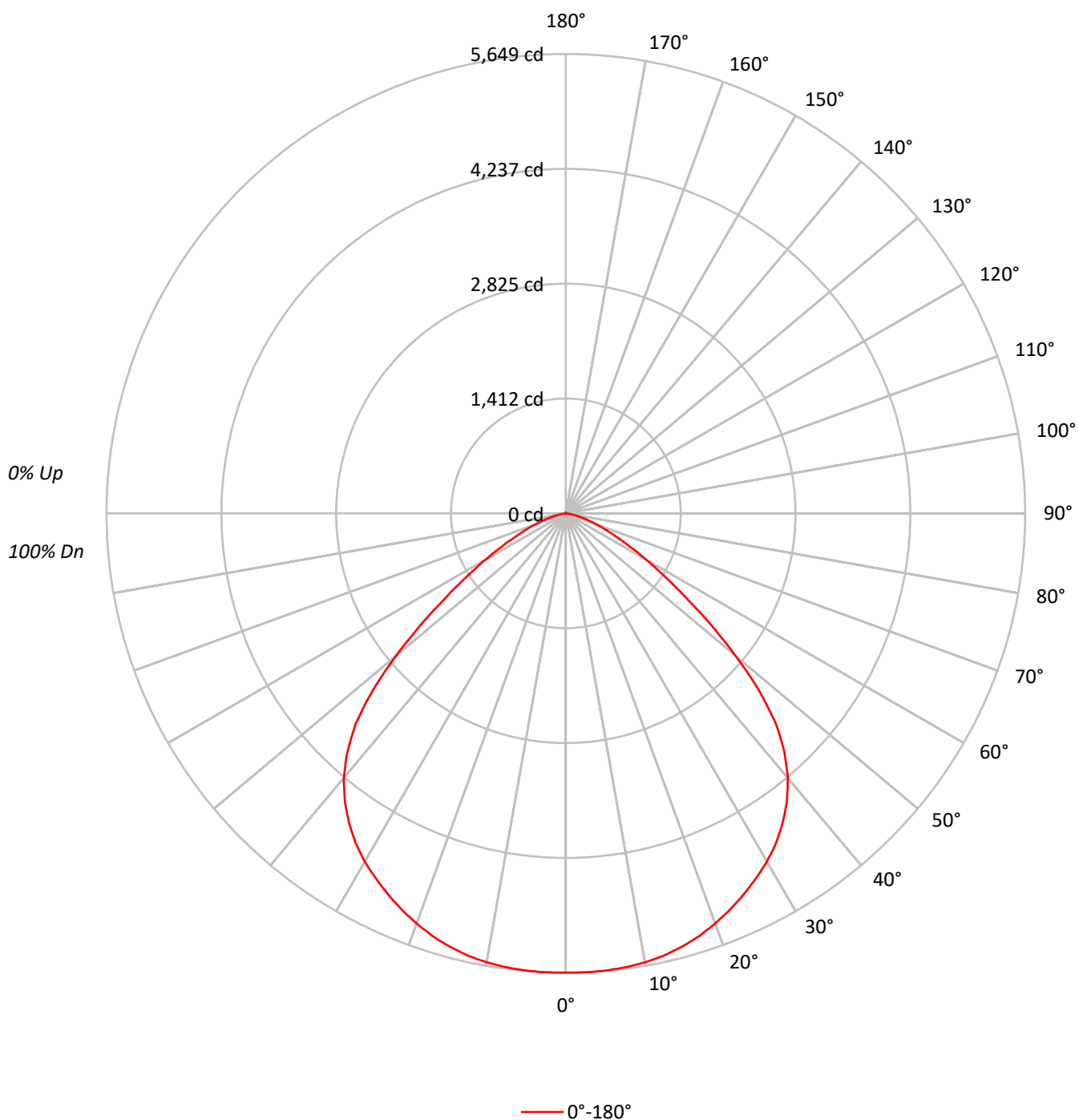
Lumens per Lamp: N/A
Luminaire Lumens: 12764.1 lumens
Efficiency: N/A
Efficacy: 162.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 78.6
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 7.2
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					30					10					0
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101		108	105	102	99		101	98	96		97	95	93		94	92	90
2	103	96	90	86		100	94	89	85		91	86	83		88	84	81		85	82	79
3	95	86	79	73		93	84	78	73		82	76	72		79	74	70		76	73	69
4	88	77	70	64		86	76	69	63		74	67	63		71	66	62		69	65	61
5	81	70	62	56		79	69	61	56		67	60	55		65	59	54		63	58	54
6	75	63	55	49		74	62	55	49		61	54	49		59	53	48		58	52	48
7	70	58	50	44		68	57	49	44		56	49	44		54	48	43		53	47	43
8	65	53	45	40		64	52	45	40		51	44	39		50	44	39		49	43	39
9	61	49	41	36		60	48	41	36		47	40	36		46	40	35		45	39	35
10	57	45	38	33		56	45	37	33		44	37	32		43	37	32		42	36	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	77388
5°	76774
10°	76308
15°	75690
20°	74806
25°	73817
30°	72896
35°	71396
40°	68649
45°	62747
50°	50475
55°	36266
60°	25649
65°	17760
70°	12014
75°	7298
80°	3208
85°	1057

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 62747 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.5	4.2
10°-20°	1557.2	12.2
20°-30°	2385.4	18.7
30°-40°	2899.6	22.7
40°-50°	2759.5	21.6
50°-60°	1647.3	12.9
60°-70°	715.0	5.6
70°-80°	227.3	1.8
80°-90°	25.4	0.2
90°-100°	0.9	0.0
100°-110°	0.7	0.0
110°-120°	0.8	0.0
120°-130°	1.2	0.0
130°-140°	1.3	0.0
140°-150°	1.6	0.0
150°-160°	1.6	0.0
160°-170°	1.2	0.0
170°-180°	0.5	0.0
0°-30°	4480.1	35.1
0°-40°	7379.7	57.8
0°-60°	11786.5	92.3
0°-90°	12754.3	99.9
90°-120°	2.4	0.0
90°-150°	6.5	0.1
90°-180°	10.0	0.1
0°-180°	12764.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5647	
5°	5643	538
15°	5517	1557
25°	5171	2385
35°	4648	2900
45°	3650	2759
55°	1794	1647
65°	697	715
75°	203	227
85°	16	24
90°	2	2
95°	1	1
105°	1	1
115°	1	1
125°	1	1
135°	2	1
145°	3	2
155°	3	2
165°	5	1
175°	5	0
180°	6	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5646.7
2.5°	5648.7
5°	5642.7
7.5°	5630.2
10°	5606.4
12.5°	5569.4
15°	5516.6
17.5°	5450.0
20°	5366.8
22.5°	5275.0
25°	5171.3
27.5°	5061.8
30°	4944.9
32.5°	4808.9
35°	4647.8
37.5°	4464.3
40°	4247.1
42.5°	3977.7
45°	3649.6
47.5°	3221.1
50°	2726.6
52.5°	2239.4
55°	1793.8
57.5°	1437.9
60°	1142.1
62.5°	892.6
65°	697.2
67.5°	536.7
70°	404.7
72.5°	295.1
75°	203.3
77.5°	128.7
80°	70.0
82.5°	33.7
85°	16.5
87.5°	7.3
90°	2.0
92.5°	0.7
95°	0.7
97.5°	0.7
100°	0.7
102.5°	0.7
105°	0.7
107.5°	0.7
110°	0.7



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.7
115°	0.7
117.5°	0.7
120°	1.3
122.5°	1.3
125°	1.3
127.5°	1.3
130°	1.3
132.5°	1.3
135°	2.0
137.5°	2.0
140°	2.0
142.5°	2.6
145°	2.6
147.5°	2.6
150°	2.6
152.5°	3.3
155°	3.3
157.5°	4.0
160°	4.0
162.5°	4.0
165°	4.6
167.5°	4.6
170°	4.6
172.5°	4.6
175°	5.3
177.5°	5.3
180°	5.9

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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	22.74	24.19	23.11	24.50	24.82	22.74	24.19	23.11	24.50	24.82
	3H	23.25	24.53	23.63	24.86	25.23	23.25	24.53	23.63	24.86	25.23
	4H	23.33	24.52	23.73	24.87	25.25	23.33	24.52	23.73	24.87	25.25
	6H	23.31	24.41	23.72	24.78	25.17	23.31	24.41	23.72	24.78	25.17
	8H	23.28	24.32	23.70	24.71	25.11	23.28	24.32	23.70	24.71	25.11
	12H	23.24	24.24	23.67	24.62	25.05	23.24	24.24	23.67	24.62	25.05
4H	2H	22.91	24.10	23.31	24.46	24.84	22.91	24.10	23.31	24.46	24.84
	3H	23.53	24.50	23.94	24.90	25.31	23.53	24.50	23.94	24.90	25.31
	4H	23.63	24.50	24.07	24.92	25.36	23.63	24.50	24.07	24.92	25.36
	6H	23.63	24.38	24.09	24.83	25.29	23.63	24.38	24.09	24.83	25.29
	8H	23.59	24.29	24.06	24.74	25.21	23.59	24.29	24.06	24.74	25.21
	12H	23.56	24.18	24.04	24.66	25.13	23.56	24.18	24.04	24.66	25.13
8H	4H	23.59	24.29	24.06	24.74	25.21	23.59	24.29	24.06	24.74	25.21
	6H	23.59	24.16	24.09	24.66	25.14	23.59	24.16	24.09	24.66	25.14
	8H	23.54	24.06	24.06	24.58	25.07	23.54	24.06	24.06	24.58	25.07
	12H	23.51	23.97	24.02	24.46	25.03	23.51	23.97	24.02	24.46	25.03
12H	4H	23.56	24.18	24.04	24.66	25.14	23.56	24.18	24.04	24.66	25.14
	6H	23.53	24.05	24.05	24.57	25.06	23.53	24.05	24.05	24.57	25.06
	8H	23.51	23.97	24.02	24.46	25.03	23.51	23.97	24.02	24.46	25.03