

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: P978852

Luminaire Tested: UHBS2-1218-M-L83065-LOW-3500K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978852
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-LOW-3500K
Description: UHBS2 LED High Bay at 3500K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

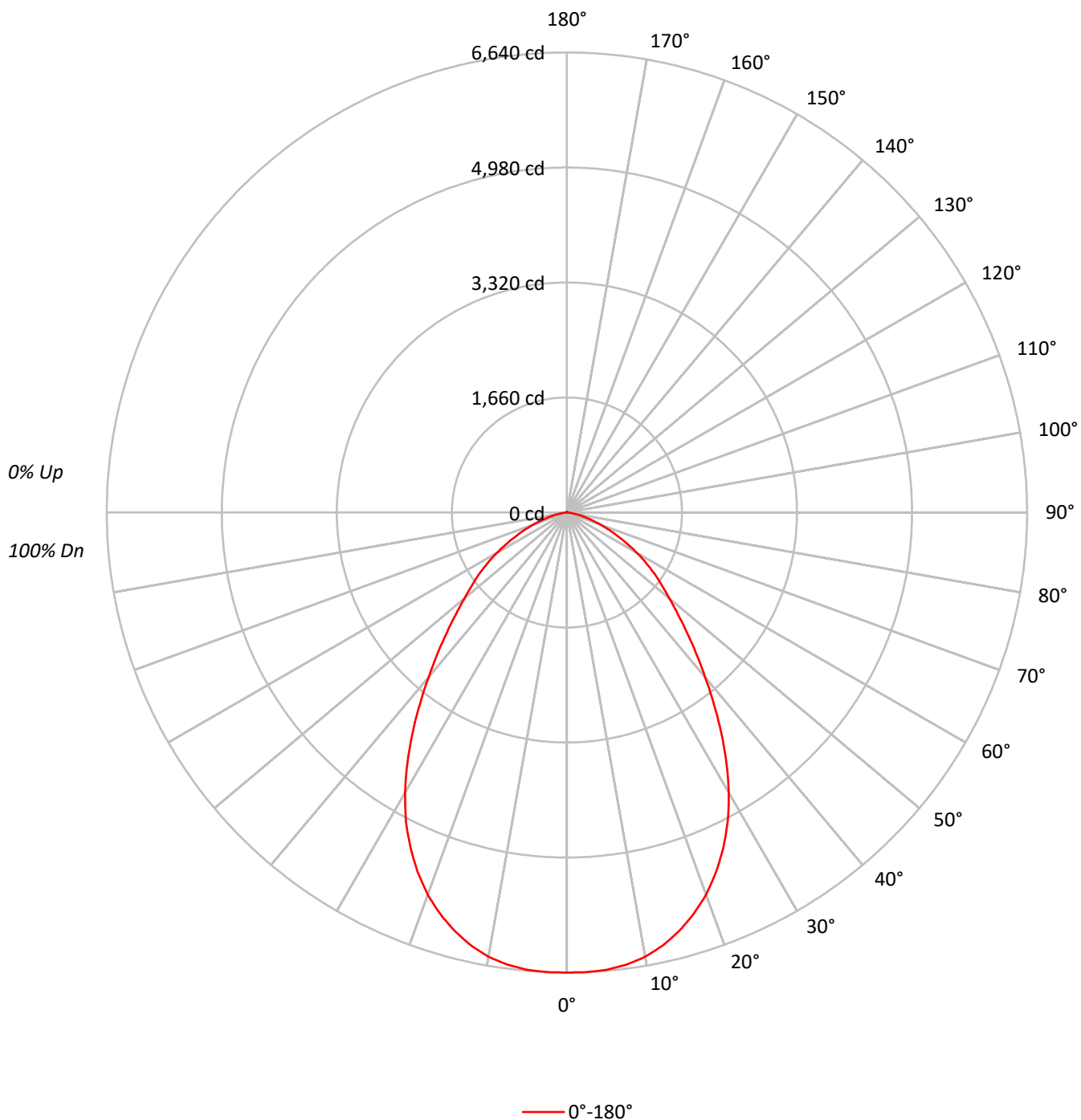
Lumens per Lamp: N/A
Luminaire Lumens: 11727.8 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 79.4
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				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°	91004
5°	90121
10°	88633
15°	85812
20°	81823
25°	76205
30°	68861
35°	59646
40°	50138
45°	42062
50°	35703
55°	31135
60°	26246
65°	20712
70°	15621
75°	10331
80°	5669
85°	2229

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 42062 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.7	5.4
10°-20°	1756.8	15.0
20°-30°	2443.7	20.8
30°-40°	2420.7	20.6
40°-50°	1903.0	16.2
50°-60°	1377.5	11.7
60°-70°	818.2	7.0
70°-80°	318.1	2.7
80°-90°	50.1	0.4
90°-100°	1.5	0.0
100°-110°	1.0	0.0
110°-120°	0.9	0.0
120°-130°	0.9	0.0
130°-140°	1.4	0.0
140°-150°	1.6	0.0
150°-160°	1.8	0.0
160°-170°	1.4	0.0
170°-180°	0.6	0.0
0°-30°	4829.3	41.2
0°-40°	7250.0	61.8
0°-60°	10530.5	89.8
0°-90°	11716.8	99.9
90°-120°	3.3	0.0
90°-150°	7.3	0.1
90°-180°	11.0	0.1
0°-180°	11727.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6640	
5°	6624	629
15°	6254	1757
25°	5339	2444
35°	3883	2421
45°	2446	1903
55°	1540	1378
65°	813	818
75°	288	318
85°	35	47
90°	5	3
95°	1	1
105°	1	1
115°	1	1
125°	1	1
135°	2	1
145°	3	2
155°	4	2
165°	6	1
175°	6	1
180°	6	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	6640.2
2.5°	6640.2
5°	6623.7
7.5°	6582.5
10°	6511.9
12.5°	6398.2
15°	6254.3
17.5°	6077.4
20°	5870.2
22.5°	5620.9
25°	5338.6
27.5°	5027.8
30°	4671.2
32.5°	4285.3
35°	3882.9
37.5°	3482.3
40°	3101.9
42.5°	2760.9
45°	2446.5
47.5°	2170.6
50°	1928.6
52.5°	1727.0
55°	1540.0
57.5°	1354.8
60°	1168.7
62.5°	984.5
65°	813.1
67.5°	668.2
70°	526.2
72.5°	398.7
75°	287.8
77.5°	197.1
80°	123.7
82.5°	70.6
85°	34.8
87.5°	14.7
90°	4.6
92.5°	0.9
95°	0.9
97.5°	0.9
100°	0.9
102.5°	0.9
105°	0.9
107.5°	0.9
110°	0.9



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.9
115°	0.9
117.5°	0.9
120°	0.9
122.5°	0.9
125°	0.9
127.5°	0.9
130°	1.8
132.5°	1.8
135°	1.8
137.5°	1.8
140°	1.8
142.5°	2.7
145°	2.7
147.5°	2.7
150°	2.7
152.5°	3.7
155°	3.7
157.5°	4.6
160°	4.6
162.5°	4.6
165°	5.5
167.5°	5.5
170°	5.5
172.5°	5.5
175°	6.4
177.5°	6.4
180°	6.4

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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	22.71	24.12	23.07	24.43	24.75	22.71	24.12	23.07	24.43	24.75
	3H	23.63	24.88	24.01	25.21	25.58	23.63	24.88	24.01	25.21	25.58
	4H	23.82	24.99	24.22	25.34	25.73	23.82	24.99	24.22	25.34	25.73
	6H	23.87	24.95	24.28	25.32	25.71	23.87	24.95	24.28	25.32	25.71
	8H	23.85	24.88	24.28	25.27	25.67	23.85	24.88	24.28	25.27	25.67
	12H	23.82	24.80	24.26	25.19	25.62	23.82	24.80	24.26	25.19	25.62
4H	2H	23.02	24.19	23.42	24.54	24.93	23.02	24.19	23.42	24.54	24.93
	3H	24.08	25.04	24.49	25.44	25.85	24.08	25.04	24.49	25.44	25.85
	4H	24.32	25.18	24.76	25.60	26.05	24.32	25.18	24.76	25.60	26.05
	6H	24.41	25.16	24.88	25.61	26.07	24.41	25.16	24.88	25.61	26.07
	8H	24.40	25.09	24.87	25.54	26.01	24.40	25.09	24.87	25.54	26.01
	12H	24.37	24.99	24.86	25.47	25.95	24.37	24.99	24.86	25.47	25.95
8H	4H	24.35	25.05	24.82	25.49	25.97	24.35	25.05	24.82	25.49	25.97
	6H	24.46	25.03	24.96	25.52	26.00	24.46	25.03	24.96	25.52	26.00
	8H	24.45	24.96	24.97	25.47	25.97	24.45	24.96	24.97	25.47	25.97
	12H	24.43	24.88	24.95	25.38	25.95	24.43	24.88	24.95	25.38	25.95
12H	4H	24.32	24.94	24.81	25.42	25.90	24.32	24.94	24.81	25.42	25.90
	6H	24.42	24.93	24.94	25.44	25.94	24.42	24.93	24.94	25.44	25.94
	8H	24.43	24.88	24.95	25.38	25.95	24.43	24.88	24.95	25.38	25.95