

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: P978856

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

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978856
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-MID-3000K
Description: UHBS2 LED High Bay at 3000K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

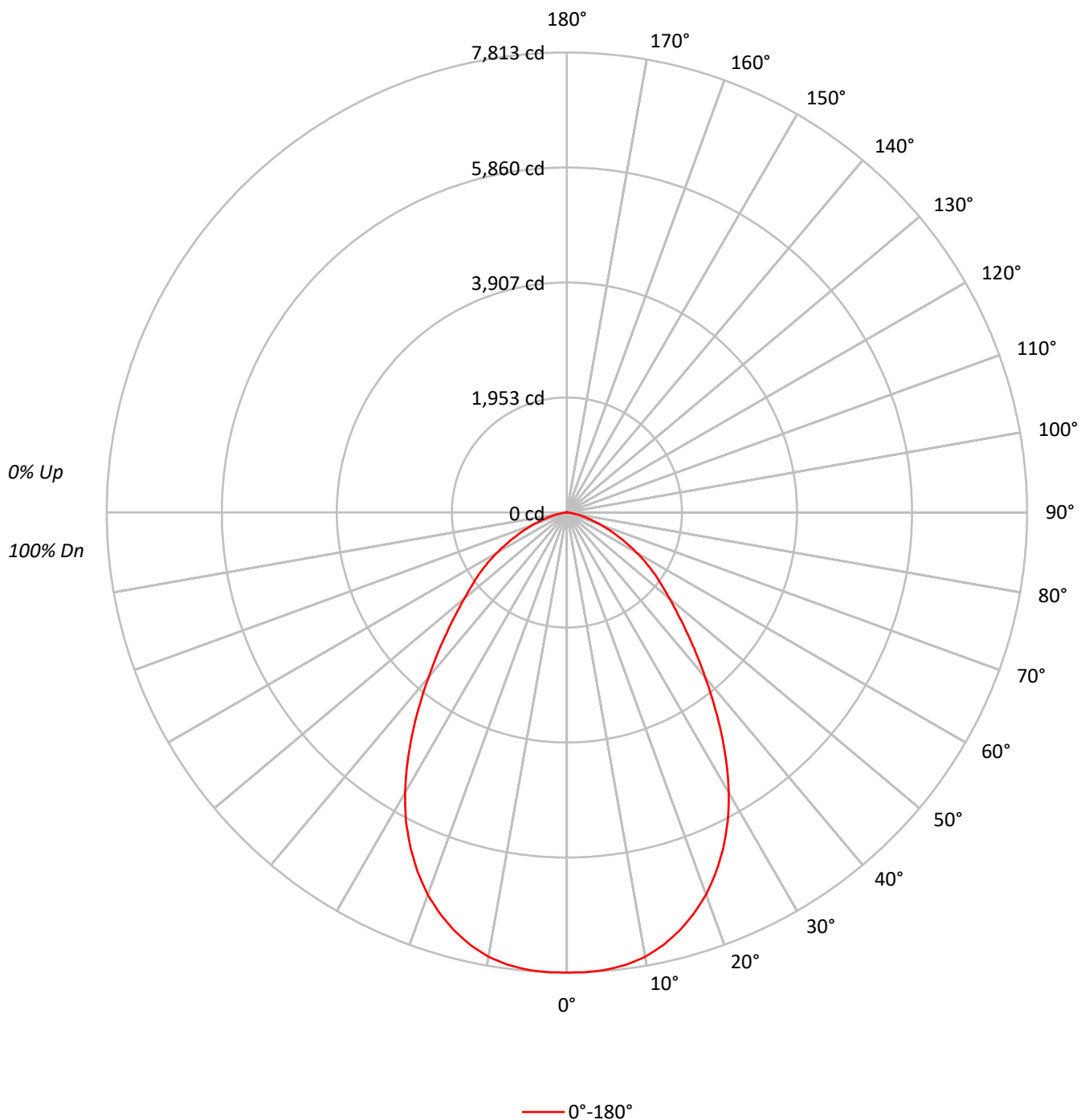
Lumens per Lamp: N/A
Luminaire Lumens: 13799.1 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 98.9
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 7.15
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°	107075
5°	106036
10°	104284
15°	100964
20°	96271
25°	89661
30°	81021
35°	70179
40°	58993
45°	49491
50°	42008
55°	36632
60°	30881
65°	24368
70°	18379
75°	12158
80°	6673
85°	2626

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 49491 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	739.7	5.4
10°-20°	2067.0	15.0
20°-30°	2875.3	20.8
30°-40°	2848.2	20.6
40°-50°	2239.1	16.2
50°-60°	1620.7	11.7
60°-70°	962.6	7.0
70°-80°	374.3	2.7
80°-90°	58.9	0.4
90°-100°	1.8	0.0
100°-110°	1.2	0.0
110°-120°	1.1	0.0
120°-130°	1.1	0.0
130°-140°	1.7	0.0
140°-150°	1.9	0.0
150°-160°	2.1	0.0
160°-170°	1.7	0.0
170°-180°	0.7	0.0
0°-30°	5682.0	41.2
0°-40°	8530.2	61.8
0°-60°	12390.1	89.8
0°-90°	13785.9	99.9
90°-120°	4.0	0.0
90°-150°	8.8	0.1
90°-180°	13.0	0.1
0°-180°	13799.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7813	
5°	7793	740
15°	7359	2067
25°	6281	2875
35°	4569	2848
45°	2879	2239
55°	1812	1621
65°	957	963
75°	339	374
85°	41	56
90°	5	4
95°	1	1
105°	1	1
115°	1	1
125°	1	1
135°	2	2
145°	3	2
155°	4	2
165°	6	2
175°	8	1
180°	8	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	7812.8
2.5°	7812.8
5°	7793.4
7.5°	7744.8
10°	7661.8
12.5°	7528.0
15°	7358.7
17.5°	7150.6
20°	6906.8
22.5°	6613.5
25°	6281.3
27.5°	5915.7
30°	5496.1
32.5°	5042.1
35°	4568.6
37.5°	4097.3
40°	3649.7
42.5°	3248.5
45°	2878.6
47.5°	2553.9
50°	2269.2
52.5°	2031.9
55°	1811.9
57.5°	1594.0
60°	1375.1
62.5°	1158.3
65°	956.6
67.5°	786.2
70°	619.1
72.5°	469.2
75°	338.7
77.5°	231.9
80°	145.6
82.5°	83.0
85°	41.0
87.5°	17.3
90°	5.4
92.5°	1.1
95°	1.1
97.5°	1.1
100°	1.1
102.5°	1.1
105°	1.1
107.5°	1.1
110°	1.1



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.1
115°	1.1
117.5°	1.1
120°	1.1
122.5°	1.1
125°	1.1
127.5°	1.1
130°	2.2
132.5°	2.2
135°	2.2
137.5°	2.2
140°	2.2
142.5°	3.2
145°	3.2
147.5°	3.2
150°	3.2
152.5°	4.3
155°	4.3
157.5°	5.4
160°	5.4
162.5°	5.4
165°	6.5
167.5°	6.5
170°	6.5
172.5°	6.5
175°	7.5
177.5°	7.5
180°	7.5

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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	23.27	24.68	23.64	25.00	25.31	23.27	24.68	23.64	25.00	25.31
	3H	24.19	25.45	24.57	25.78	26.14	24.19	25.45	24.57	25.78	26.14
	4H	24.38	25.56	24.79	25.91	26.29	24.38	25.56	24.79	25.91	26.29
	6H	24.43	25.51	24.85	25.88	26.28	24.43	25.51	24.85	25.88	26.28
	8H	24.42	25.44	24.85	25.83	26.24	24.42	25.44	24.85	25.83	26.24
	12H	24.39	25.37	24.82	25.75	26.19	24.39	25.37	24.82	25.75	26.19
4H	2H	23.58	24.76	23.99	25.11	25.49	23.58	24.76	23.99	25.11	25.49
	3H	24.64	25.61	25.06	26.01	26.41	24.64	25.61	25.06	26.01	26.41
	4H	24.89	25.75	25.32	26.17	26.61	24.89	25.75	25.32	26.17	26.61
	6H	24.98	25.72	25.44	26.17	26.64	24.98	25.72	25.44	26.17	26.64
	8H	24.96	25.66	25.43	26.11	26.58	24.96	25.66	25.43	26.11	26.58
	12H	24.94	25.55	25.42	26.04	26.51	24.94	25.55	25.42	26.04	26.51
8H	4H	24.92	25.61	25.38	26.06	26.53	24.92	25.61	25.38	26.06	26.53
	6H	25.02	25.59	25.52	26.09	26.57	25.02	25.59	25.52	26.09	26.57
	8H	25.01	25.52	25.53	26.04	26.53	25.01	25.52	25.53	26.04	26.53
	12H	25.00	25.45	25.51	25.94	26.51	25.00	25.45	25.51	25.94	26.51
12H	4H	24.89	25.50	25.37	25.99	26.46	24.89	25.50	25.37	25.99	26.46
	6H	24.98	25.49	25.50	26.01	26.50	24.98	25.49	25.50	26.01	26.50
	8H	25.00	25.45	25.51	25.94	26.51	25.00	25.45	25.51	25.94	26.51

END OF REPORT