

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: P978859

Luminaire Tested: UHBS2-1218-M-L83065-MID-5000K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978859
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-5000K
Description: UHBS2 LED High Bay at 5000K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

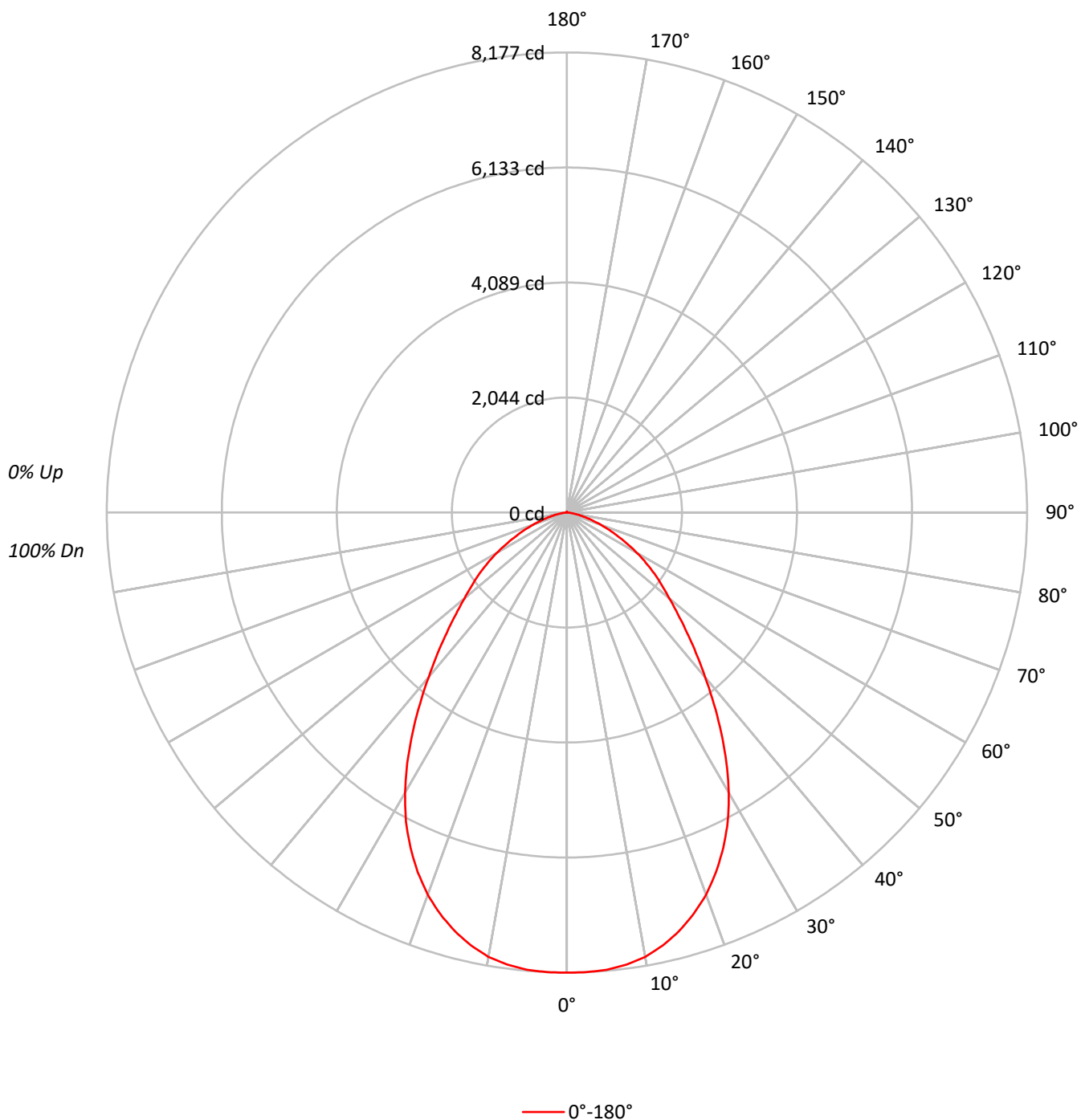
Lumens per Lamp: N/A
Luminaire Lumens: 14442.9 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 96.6
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

TEST NUMBER: P978859

CATALOG NUMBER: UHBS2-1218-M-L83065-MID-5000K

Luminous Intensity Polar Plot



TEST NUMBER: P978859

CATALOG NUMBER: UHBS2-1218-M-L83065-MID-5000K

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°	112072
5°	110984
10°	109151
15°	105676
20°	100765
25°	93845
30°	84802
35°	73454
40°	61746
45°	51800
50°	43968
55°	38343
60°	32323
65°	25507
70°	19237
75°	12725
80°	6985
85°	2747

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 51800 cd/sqm

TEST NUMBER: P978859

CATALOG NUMBER: UHBS2-1218-M-L83065-MID-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	774.3	5.4
10°-20°	2163.5	15.0
20°-30°	3009.4	20.8
30°-40°	2981.1	20.6
40°-50°	2343.6	16.2
50°-60°	1696.4	11.7
60°-70°	1007.6	7.0
70°-80°	391.7	2.7
80°-90°	61.7	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°	1.8	0.0
140°-150°	2.0	0.0
150°-160°	2.2	0.0
160°-170°	1.8	0.0
170°-180°	0.7	0.0
0°-30°	5947.2	41.2
0°-40°	8928.3	61.8
0°-60°	12968.3	89.8
0°-90°	14429.3	99.9
90°-120°	4.1	0.0
90°-150°	9.0	0.1
90°-180°	14.0	0.1
0°-180°	14442.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8177	
5°	8157	774
15°	7702	2164
25°	6574	3009
35°	4782	2981
45°	3013	2344
55°	1896	1696
65°	1001	1008
75°	354	392
85°	43	58
90°	6	4
95°	1	1
105°	1	1
115°	1	1
125°	1	1
135°	2	2
145°	3	2
155°	4	2
165°	7	2
175°	8	1
180°	8	

TEST NUMBER: P978859

CATALOG NUMBER: UHBS2-1218-M-L83065-MID-5000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	8177.4
2.5°	8177.4
5°	8157.1
7.5°	8106.3
10°	8019.4
12.5°	7879.4
15°	7702.1
17.5°	7484.3
20°	7229.2
22.5°	6922.1
25°	6574.4
27.5°	6191.7
30°	5752.6
32.5°	5277.4
35°	4781.8
37.5°	4288.5
40°	3820.0
42.5°	3400.1
45°	3012.9
47.5°	2673.1
50°	2375.1
52.5°	2126.8
55°	1896.5
57.5°	1668.4
60°	1439.3
62.5°	1212.4
65°	1001.3
67.5°	822.9
70°	648.0
72.5°	491.1
75°	354.5
77.5°	242.7
80°	152.4
82.5°	86.9
85°	42.9
87.5°	18.1
90°	5.6
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



TEST NUMBER: P978859

CATALOG NUMBER: UHBS2-1218-M-L83065-MID-5000K

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°	2.3
132.5°	2.3
135°	2.3
137.5°	2.3
140°	2.3
142.5°	3.4
145°	3.4
147.5°	3.4
150°	3.4
152.5°	4.5
155°	4.5
157.5°	5.6
160°	5.6
162.5°	5.6
165°	6.8
167.5°	6.8
170°	6.8
172.5°	6.8
175°	7.9
177.5°	7.9
180°	7.9

TEST NUMBER: P978859

CATALOG NUMBER: UHBS2-1218-M-L83065-MID-5000K

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	23.43	24.84	23.80	25.15	25.47	23.43	24.84	23.80	25.15	25.47
	3H	24.35	25.61	24.73	25.94	26.30	24.35	25.61	24.73	25.94	26.30
	4H	24.54	25.72	24.95	26.07	26.45	24.54	25.72	24.95	26.07	26.45
	6H	24.59	25.67	25.01	26.04	26.44	24.59	25.67	25.01	26.04	26.44
	8H	24.58	25.60	25.01	25.99	26.40	24.58	25.60	25.01	25.99	26.40
	12H	24.55	25.53	24.98	25.91	26.34	24.55	25.53	24.98	25.91	26.34
4H	2H	23.74	24.91	24.14	25.27	25.65	23.74	24.91	24.14	25.27	25.65
	3H	24.80	25.76	25.21	26.17	26.57	24.80	25.76	25.21	26.17	26.57
	4H	25.05	25.91	25.48	26.33	26.77	25.05	25.91	25.48	26.33	26.77
	6H	25.14	25.88	25.60	26.33	26.79	25.14	25.88	25.60	26.33	26.79
	8H	25.12	25.82	25.59	26.26	26.74	25.12	25.82	25.59	26.26	26.74
	12H	25.10	25.71	25.58	26.20	26.67	25.10	25.71	25.58	26.20	26.67
8H	4H	25.07	25.77	25.54	26.22	26.69	25.07	25.77	25.54	26.22	26.69
	6H	25.18	25.75	25.68	26.25	26.73	25.18	25.75	25.68	26.25	26.73
	8H	25.17	25.68	25.69	26.20	26.69	25.17	25.68	25.69	26.20	26.69
	12H	25.16	25.61	25.67	26.10	26.67	25.16	25.61	25.67	26.10	26.67
12H	4H	25.04	25.66	25.53	26.14	26.62	25.04	25.66	25.53	26.14	26.62
	6H	25.14	25.65	25.66	26.17	26.66	25.14	25.65	25.66	26.17	26.66
	8H	25.16	25.60	25.67	26.10	26.67	25.16	25.60	25.67	26.10	26.67