

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: P926793

Luminaire Tested: UHBS2-1218-N-L83065-LOW-5000K

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2405-087-3)
Test Lab: INNOVATION CENTER
Issue Date: 12/6/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-N-L83065-LOW-5000K
Description: UHBS2 LED High Bay at 5000K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

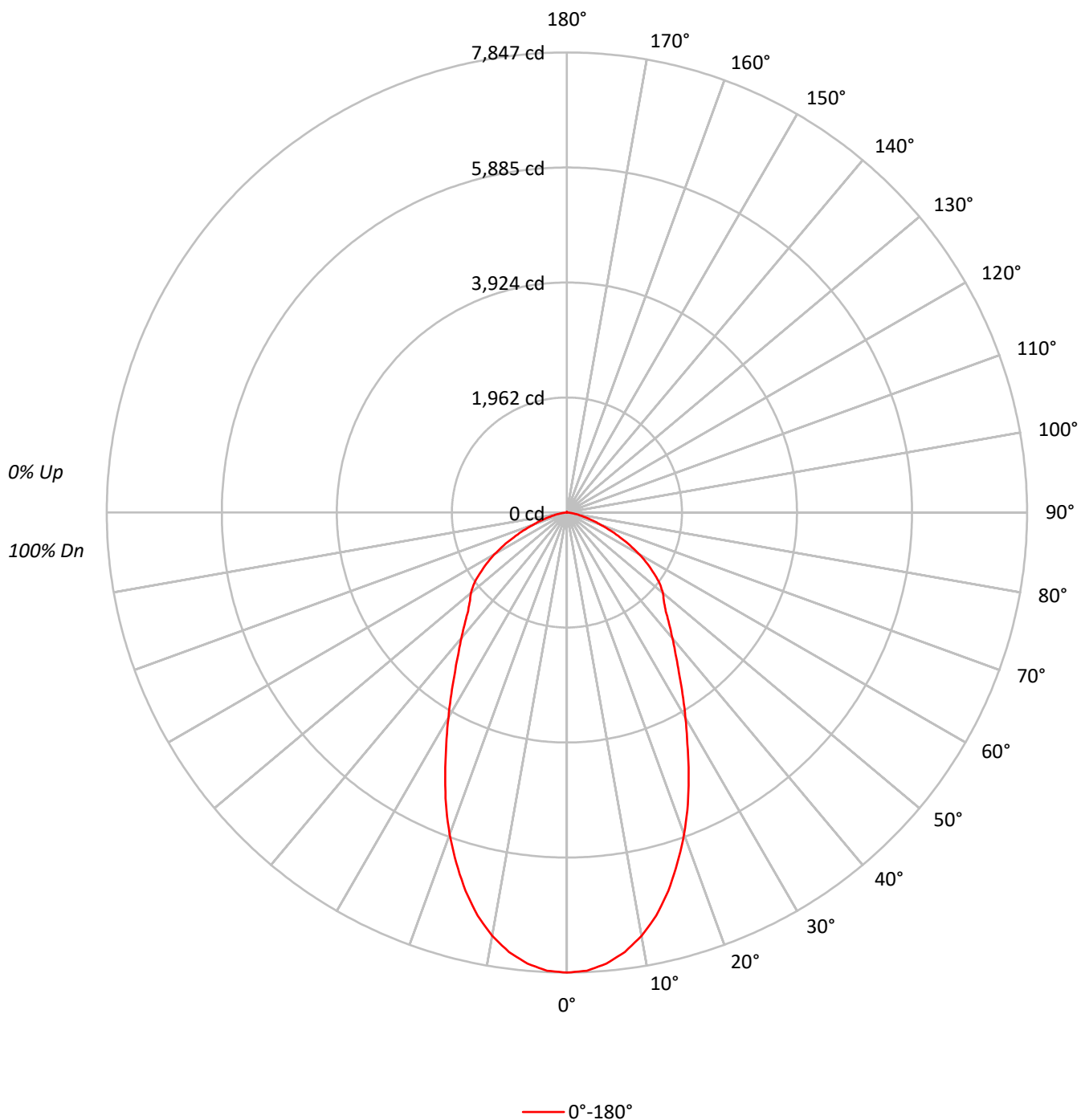
Lumens per Lamp: N/A
Luminaire Lumens: 11868.2 lumens
Efficiency: N/A
Efficacy: 150.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 79
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

TEST NUMBER: P926793

CATALOG NUMBER: UHBS2-1218-N-L83065-LOW-5000K

Luminous Intensity Polar Plot



TEST NUMBER: P926793

CATALOG NUMBER: UHBS2-1218-N-L83065-LOW-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	103	100	108	105	101	98	100	98	95		96	94	92		93
2	102	95	89	85	100	93	88	84	90	86	82		87	83	80		84
3	94	85	78	73	92	84	77	72	81	75	71		78	74	70		76
4	88	77	69	63	85	76	69	63	73	67	62		71	66	61		69
5	81	70	62	56	79	69	61	56	67	60	55		65	59	55		63
6	76	64	56	50	74	63	55	50	61	55	50		60	54	49		58
7	71	59	51	45	69	58	50	45	56	50	45		55	49	45		54
8	67	54	47	41	65	54	46	41	52	46	41		51	45	41		50
9	63	50	43	38	61	50	43	38	49	42	38		48	42	37		47
10	59	47	40	35	58	46	39	35	46	39	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	107546
5°	105085
10°	99799
15°	91658
20°	81463
25°	70054
30°	59543
35°	51104
40°	45220
45°	40993
50°	39561
55°	36653
60°	32038
65°	25448
70°	18385
75°	12115
80°	7076
85°	3196

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 40993 cd/sqm

TEST NUMBER: P926793

CATALOG NUMBER: UHBS2-1218-N-L83065-LOW-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	724.8	6.1
10°-20°	1861.7	15.7
20°-30°	2253.8	19.0
30°-40°	2097.9	17.7
40°-50°	1865.8	15.7
50°-60°	1612.7	13.6
60°-70°	996.7	8.4
70°-80°	375.9	3.2
80°-90°	66.9	0.6
90°-100°	1.7	0.0
100°-110°	1.1	0.0
110°-120°	1.0	0.0
120°-130°	1.2	0.0
130°-140°	1.5	0.0
140°-150°	1.6	0.0
150°-160°	1.9	0.0
160°-170°	1.5	0.0
170°-180°	0.6	0.0
0°-30°	4840.3	40.8
0°-40°	6938.2	58.5
0°-60°	10416.7	87.8
0°-90°	11856.1	99.9
90°-120°	3.8	0.0
90°-150°	8.0	0.1
90°-180°	12.0	0.1
0°-180°	11868.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7847	
5°	7724	725
15°	6680	1862
25°	4908	2254
35°	3327	2098
45°	2384	1866
55°	1813	1613
65°	999	997
75°	338	376
85°	50	63
90°	6	5
95°	1	1
105°	1	1
115°	1	1
125°	1	1
135°	2	1
145°	3	2
155°	4	2
165°	6	2
175°	7	1
180°	8	

TEST NUMBER: P926793

CATALOG NUMBER: UHBS2-1218-N-L83065-LOW-5000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	7847.2
2.5°	7824.1
5°	7723.5
7.5°	7560.5
10°	7332.3
12.5°	7040.9
15°	6680.4
17.5°	6268.1
20°	5844.4
22.5°	5389.9
25°	4907.7
27.5°	4452.3
30°	4039.1
32.5°	3666.2
35°	3326.8
37.5°	3043.9
40°	2797.6
42.5°	2579.0
45°	2384.3
47.5°	2242.5
50°	2137.0
52.5°	1998.0
55°	1812.9
57.5°	1625.0
60°	1426.6
62.5°	1213.7
65°	999.0
67.5°	801.5
70°	619.3
72.5°	467.9
75°	337.5
77.5°	235.8
80°	154.4
82.5°	94.9
85°	49.9
87.5°	21.1
90°	5.8
92.5°	1.0
95°	1.0
97.5°	1.0
100°	1.0
102.5°	1.0
105°	1.0
107.5°	1.0
110°	1.0



TEST NUMBER: P926793

CATALOG NUMBER: UHBS2-1218-N-L83065-LOW-5000K

CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.0
115°	1.0
117.5°	1.0
120°	1.0
122.5°	1.0
125°	1.0
127.5°	1.9
130°	1.9
132.5°	1.9
135°	1.9
137.5°	1.9
140°	1.9
142.5°	1.9
145°	2.9
147.5°	2.9
150°	2.9
152.5°	3.8
155°	3.8
157.5°	4.8
160°	4.8
162.5°	4.8
165°	5.8
167.5°	5.8
170°	5.8
172.5°	6.7
175°	6.7
177.5°	6.7
180°	7.7

TEST NUMBER: P926793

CATALOG NUMBER: UHBS2-1218-N-L83065-LOW-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	23.87	25.33	24.24	25.65	25.96	23.87	25.33	24.24	25.65	25.96
	3H	24.78	26.09	25.16	26.42	26.78	24.78	26.09	25.16	26.42	26.78
	4H	24.97	26.19	25.37	26.54	26.92	24.97	26.19	25.37	26.54	26.92
	6H	25.03	26.15	25.44	26.52	26.91	25.03	26.15	25.44	26.52	26.91
	8H	25.01	26.08	25.44	26.47	26.88	25.01	26.08	25.44	26.47	26.88
	12H	24.99	26.01	25.43	26.40	26.83	24.99	26.01	25.43	26.40	26.83
4H	2H	24.22	25.43	24.62	25.79	26.17	24.22	25.43	24.62	25.79	26.17
	3H	25.25	26.26	25.67	26.66	27.06	25.25	26.26	25.67	26.66	27.06
	4H	25.49	26.39	25.92	26.81	27.25	25.49	26.39	25.92	26.81	27.25
	6H	25.59	26.37	26.05	26.81	27.28	25.59	26.37	26.05	26.81	27.28
	8H	25.58	26.31	26.05	26.76	27.23	25.58	26.31	26.05	26.76	27.23
	12H	25.57	26.21	26.05	26.69	27.17	25.57	26.21	26.05	26.69	27.17
8H	4H	25.52	26.25	25.99	26.69	27.16	25.52	26.25	25.99	26.69	27.16
	6H	25.64	26.23	26.14	26.73	27.21	25.64	26.23	26.14	26.73	27.21
	8H	25.64	26.18	26.16	26.69	27.18	25.64	26.18	26.16	26.69	27.18
	12H	25.64	26.11	26.15	26.60	27.17	25.64	26.11	26.15	26.60	27.17
12H	4H	25.50	26.14	25.98	26.62	27.10	25.50	26.14	25.98	26.62	27.10
	6H	25.61	26.14	26.12	26.65	27.14	25.61	26.14	26.12	26.65	27.14
	8H	25.63	26.10	26.15	26.60	27.17	25.63	26.10	26.15	26.60	27.17