

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: P926792

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

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926792
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-4000K
Description: UHBS2 LED High Bay at 4000K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

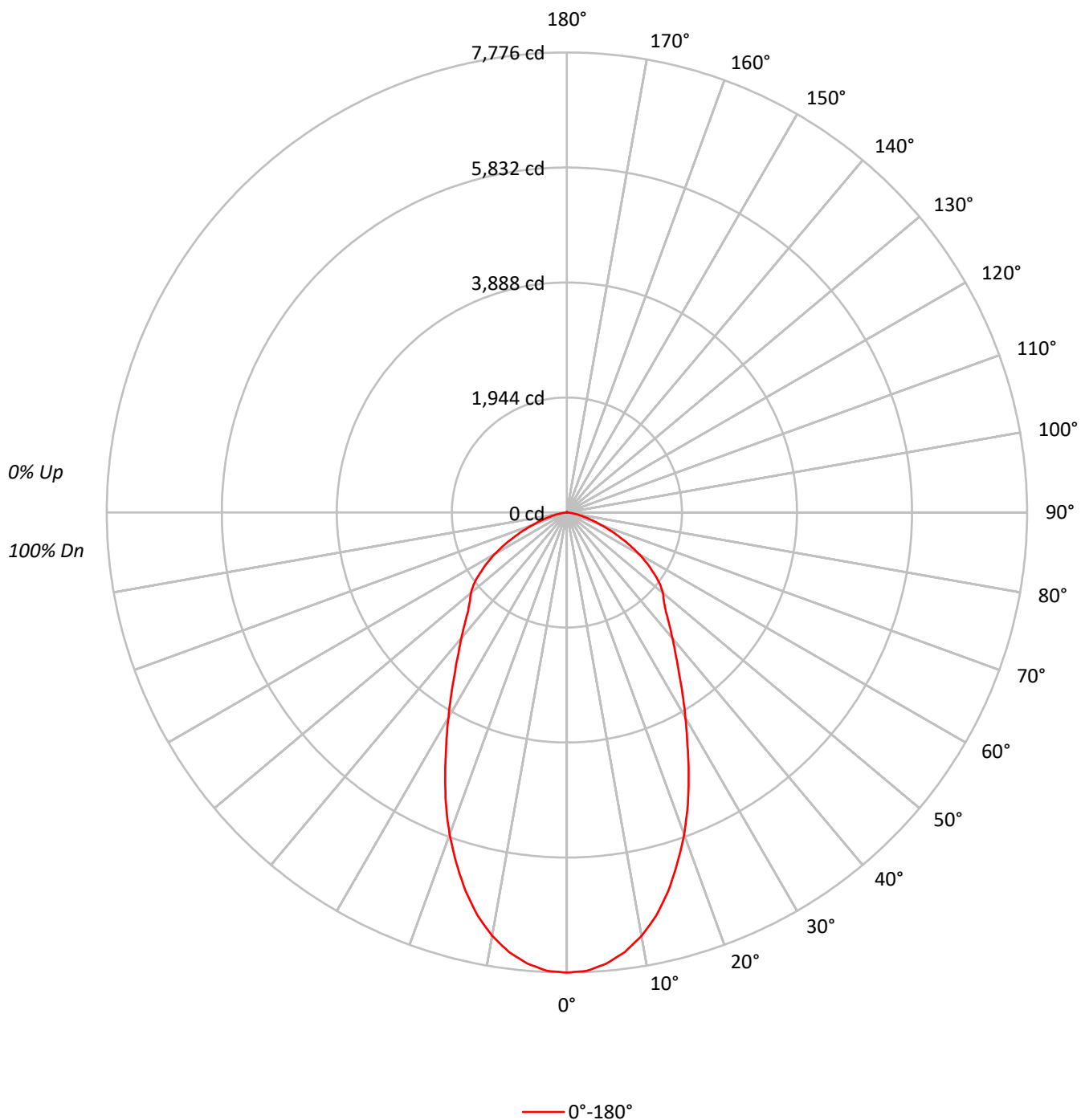
Lumens per Lamp: N/A
Luminaire Lumens: 11761.2 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P926792

CATALOG NUMBER: UHBS2-1218-N-L83065-LOW-4000K

Luminous Intensity Polar Plot



TEST NUMBER: P926792

CATALOG NUMBER: UHBS2-1218-N-L83065-LOW-4000K

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°	106576
5°	104136
10°	98899
15°	90832
20°	80729
25°	69423
30°	59006
35°	50643
40°	44811
45°	40623
50°	39203
55°	36323
60°	31748
65°	25219
70°	18221
75°	12003
80°	7012
85°	3164

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 40623 cd/sqm

TEST NUMBER: P926792

CATALOG NUMBER: UHBS2-1218-N-L83065-LOW-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	718.3	6.1
10°-20°	1844.9	15.7
20°-30°	2233.5	19.0
30°-40°	2079.0	17.7
40°-50°	1848.9	15.7
50°-60°	1598.1	13.6
60°-70°	987.7	8.4
70°-80°	372.5	3.2
80°-90°	66.3	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°	4796.7	40.8
0°-40°	6875.7	58.5
0°-60°	10322.7	87.8
0°-90°	11749.2	99.9
90°-120°	3.8	0.0
90°-150°	8.0	0.1
90°-180°	12.0	0.1
0°-180°	11761.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7776	
5°	7654	718
15°	6620	1845
25°	4864	2234
35°	3297	2079
45°	2363	1849
55°	1797	1598
65°	990	988
75°	334	372
85°	49	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: P926792

CATALOG NUMBER: UHBS2-1218-N-L83065-LOW-4000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	7776.4
2.5°	7753.6
5°	7653.8
7.5°	7492.3
10°	7266.2
12.5°	6977.4
15°	6620.2
17.5°	6211.6
20°	5791.7
22.5°	5341.3
25°	4863.5
27.5°	4412.2
30°	4002.7
32.5°	3633.1
35°	3296.8
37.5°	3016.5
40°	2772.3
42.5°	2555.7
45°	2362.8
47.5°	2222.2
50°	2117.7
52.5°	1980.0
55°	1796.6
57.5°	1610.4
60°	1413.7
62.5°	1202.8
65°	990.0
67.5°	794.3
70°	613.8
72.5°	463.6
75°	334.4
77.5°	233.7
80°	153.0
82.5°	94.1
85°	49.4
87.5°	20.9
90°	5.7
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: P926792

CATALOG NUMBER: UHBS2-1218-N-L83065-LOW-4000K

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°	5.7
167.5°	5.7
170°	5.7
172.5°	6.7
175°	6.7
177.5°	6.7
180°	7.6

TEST NUMBER: P926792

CATALOG NUMBER: UHBS2-1218-N-L83065-LOW-4000K

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	23.84	25.30	24.21	25.62	25.93	23.84	25.30	24.21	25.62	25.93
	3H	24.75	26.06	25.13	26.39	26.75	24.75	26.06	25.13	26.39	26.75
	4H	24.94	26.16	25.34	26.51	26.89	24.94	26.16	25.34	26.51	26.89
	6H	24.99	26.12	25.41	26.49	26.88	24.99	26.12	25.41	26.49	26.88
	8H	24.98	26.05	25.41	26.44	26.85	24.98	26.05	25.41	26.44	26.85
	12H	24.96	25.98	25.39	26.37	26.80	24.96	25.98	25.39	26.37	26.80
4H	2H	24.19	25.40	24.59	25.75	26.14	24.19	25.40	24.59	25.75	26.14
	3H	25.22	26.23	25.63	26.63	27.03	25.22	26.23	25.63	26.63	27.03
	4H	25.46	26.36	25.89	26.78	27.22	25.46	26.36	25.89	26.78	27.22
	6H	25.56	26.34	26.02	26.78	27.25	25.56	26.34	26.02	26.78	27.25
	8H	25.55	26.28	26.02	26.72	27.19	25.55	26.28	26.02	26.72	27.19
	12H	25.53	26.18	26.02	26.66	27.14	25.53	26.18	26.02	26.66	27.14
8H	4H	25.49	26.22	25.96	26.66	27.13	25.49	26.22	25.96	26.66	27.13
	6H	25.61	26.20	26.11	26.70	27.18	25.61	26.20	26.11	26.70	27.18
	8H	25.61	26.14	26.13	26.66	27.15	25.61	26.14	26.13	26.66	27.15
	12H	25.61	26.08	26.12	26.57	27.14	25.61	26.08	26.12	26.57	27.14
12H	4H	25.46	26.11	25.95	26.59	27.07	25.46	26.11	25.95	26.59	27.07
	6H	25.57	26.11	26.09	26.62	27.11	25.57	26.11	26.09	26.62	27.11
	8H	25.60	26.07	26.12	26.57	27.14	25.60	26.07	26.12	26.57	27.14