

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: P980655

Luminaire Tested: UHBS2-1218-W-L83065-MID-5000K-FRR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-4)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-W-L83065-MID-5000K-FRR3
Description: UHBS2 LED High Bay at 5000K and MID lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

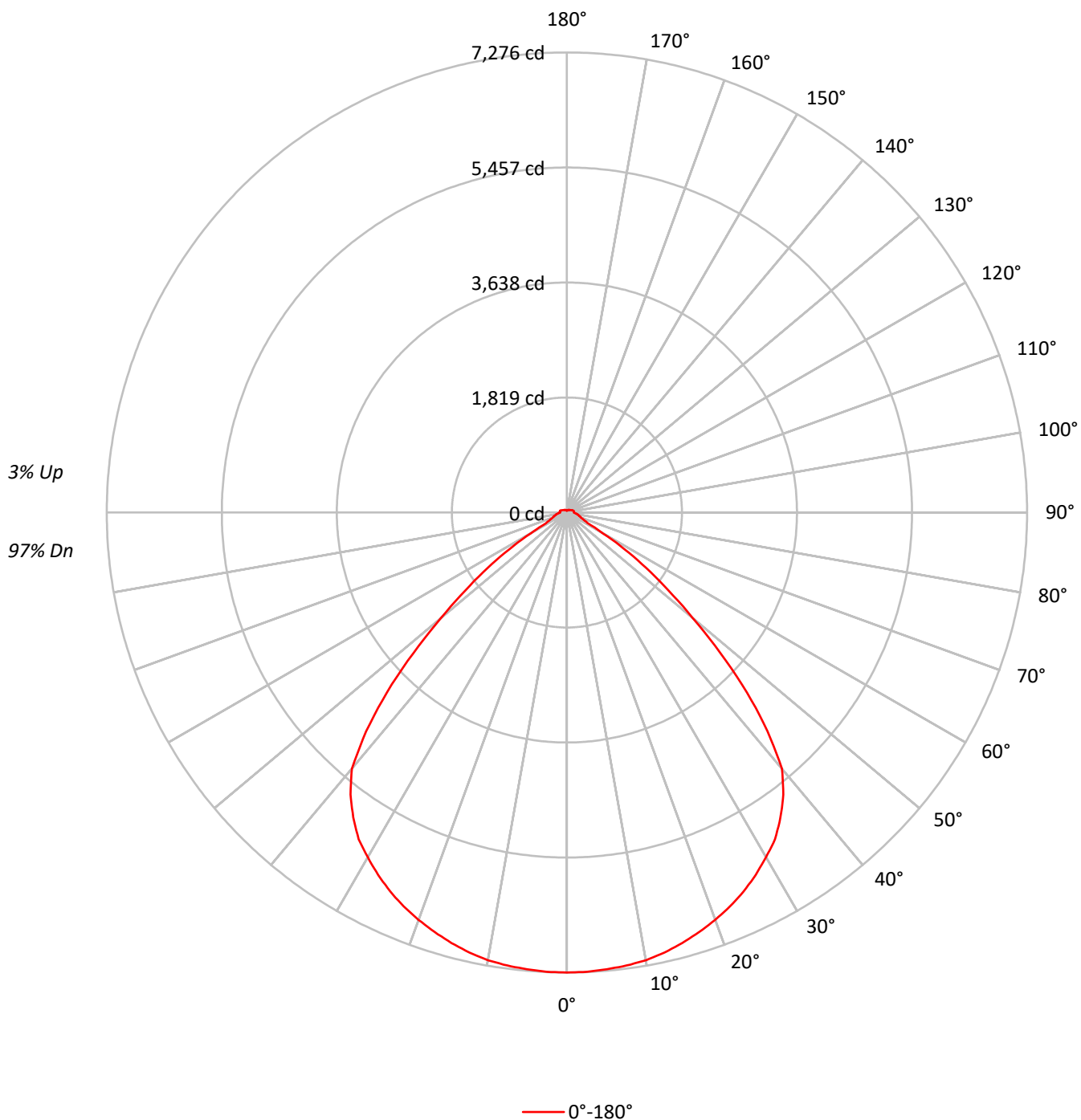
Lumens per Lamp: N/A
Luminaire Lumens: 15050.0 lumens
Efficiency: N/A
Efficacy: 155.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.31
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 0.25')
CIE Type: Direct

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: P980655

CATALOG NUMBER: UHBS2-1218-W-L83065-MID-5000K-FRR3

Luminous Intensity Polar Plot



TEST NUMBER: P980655

CATALOG NUMBER: UHBS2-1218-W-L83065-MID-5000K-FRR3

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	30	10
RCR																	
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99
1	111	107	104	101	108	104	101	99	100	97	95	95	93	92	91	90	88
2	103	96	91	86	100	94	89	85	90	86	83	87	83	80	83	81	78
3	95	87	80	75	93	85	79	74	82	77	73	79	75	71	76	73	70
4	89	79	72	66	86	77	71	65	75	69	64	72	67	63	70	65	62
5	82	72	64	58	80	70	63	58	68	62	57	66	60	56	64	59	55
6	77	65	58	52	75	64	57	52	62	56	51	60	55	50	59	54	50
7	72	60	52	47	70	59	52	46	57	51	46	56	50	45	54	49	45
8	67	55	47	42	65	54	47	42	53	46	42	51	45	41	50	45	41
9	63	51	43	38	61	50	43	38	49	42	38	47	42	38	46	41	37
10	59	47	40	35	58	46	40	35	45	39	35	44	38	34	43	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	73348
5°	71663
10°	70212
15°	68540
20°	66903
25°	65251
30°	63308
35°	60826
40°	56635
45°	45093
50°	30688
55°	19348
60°	9059
65°	4772
70°	4055
75°	3897
80°	3848
85°	3843

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 45093 cd/sqm

TEST NUMBER: P980655

CATALOG NUMBER: UHBS2-1218-W-L83065-MID-5000K-FRR3

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	690.3	4.6
10°-20°	1990.7	13.2
20°-30°	3046.5	20.2
30°-40°	3666.9	24.4
40°-50°	3060.8	20.3
50°-60°	1386.9	9.2
60°-70°	352.2	2.3
70°-80°	214.4	1.4
80°-90°	149.6	1.0
90°-100°	120.8	0.8
100°-110°	113.8	0.8
110°-120°	84.7	0.6
120°-130°	60.4	0.4
130°-140°	45.4	0.3
140°-150°	32.5	0.2
150°-160°	20.8	0.1
160°-170°	10.5	0.1
170°-180°	2.8	0.0
0°-30°	5727.5	38.1
0°-40°	9394.4	62.4
0°-60°	13842.2	92.0
0°-90°	14558.4	96.7
90°-120°	319.2	2.1
90°-150°	457.5	3.0
90°-180°	492.0	3.3
0°-180°	15050.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7276	
5°	7251	690
15°	7048	1991
25°	6613	3047
35°	5888	3667
45°	4027	3061
55°	1530	1387
65°	317	352
75°	202	214
85°	137	118
90°	107	61
95°	111	91
105°	108	114
115°	84	85
125°	67	60
135°	58	45
145°	51	33
155°	44	21
165°	36	10
175°	28	3
180°	27	

TEST NUMBER: P980655

CATALOG NUMBER: UHBS2-1218-W-L83065-MID-5000K-FRR3

CANDELA DISTRIBUTION (FULL):

0°	
0°	7276.2
2.5°	7270.5
5°	7251.1
7.5°	7227.2
10°	7189.5
12.5°	7130.2
15°	7048.0
17.5°	6957.9
20°	6856.3
22.5°	6742.2
25°	6613.3
27.5°	6461.5
30°	6296.1
32.5°	6126.1
35°	5887.6
37.5°	5620.6
40°	5289.7
42.5°	4697.5
45°	4026.6
47.5°	3293.0
50°	2593.5
52.5°	2020.7
55°	1530.1
57.5°	1078.3
60°	661.8
62.5°	385.7
65°	317.2
67.5°	273.8
70°	240.8
72.5°	220.2
75°	202.0
77.5°	184.8
80°	168.9
82.5°	152.9
85°	136.9
87.5°	120.9
90°	107.3
92.5°	108.4
95°	110.7
97.5°	113.0
100°	114.1
102.5°	111.8
105°	108.4
107.5°	103.8
110°	98.1

TEST NUMBER: P980655

CATALOG NUMBER: UHBS2-1218-W-L83065-MID-5000K-FRR3

CANDELA DISTRIBUTION (continued):

	0°
112.5°	91.3
115°	84.4
117.5°	78.7
120°	74.2
122.5°	69.6
125°	67.3
127.5°	63.9
130°	61.6
132.5°	60.5
135°	58.2
137.5°	57.1
140°	54.8
142.5°	53.6
145°	51.3
147.5°	50.2
150°	47.9
152.5°	46.8
155°	44.5
157.5°	43.4
160°	41.1
162.5°	38.8
165°	36.5
167.5°	34.2
170°	31.9
172.5°	28.5
175°	28.5
177.5°	28.5
180°	27.4

(END OF REPORT)