

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: P980554

Luminaire Tested: UHBS2-1218-M-L83065-HIGH-6500K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-8)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-M-L83065-HIGH-6500K-FRR6
Description: UHBS2 LED High Bay at 6500K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

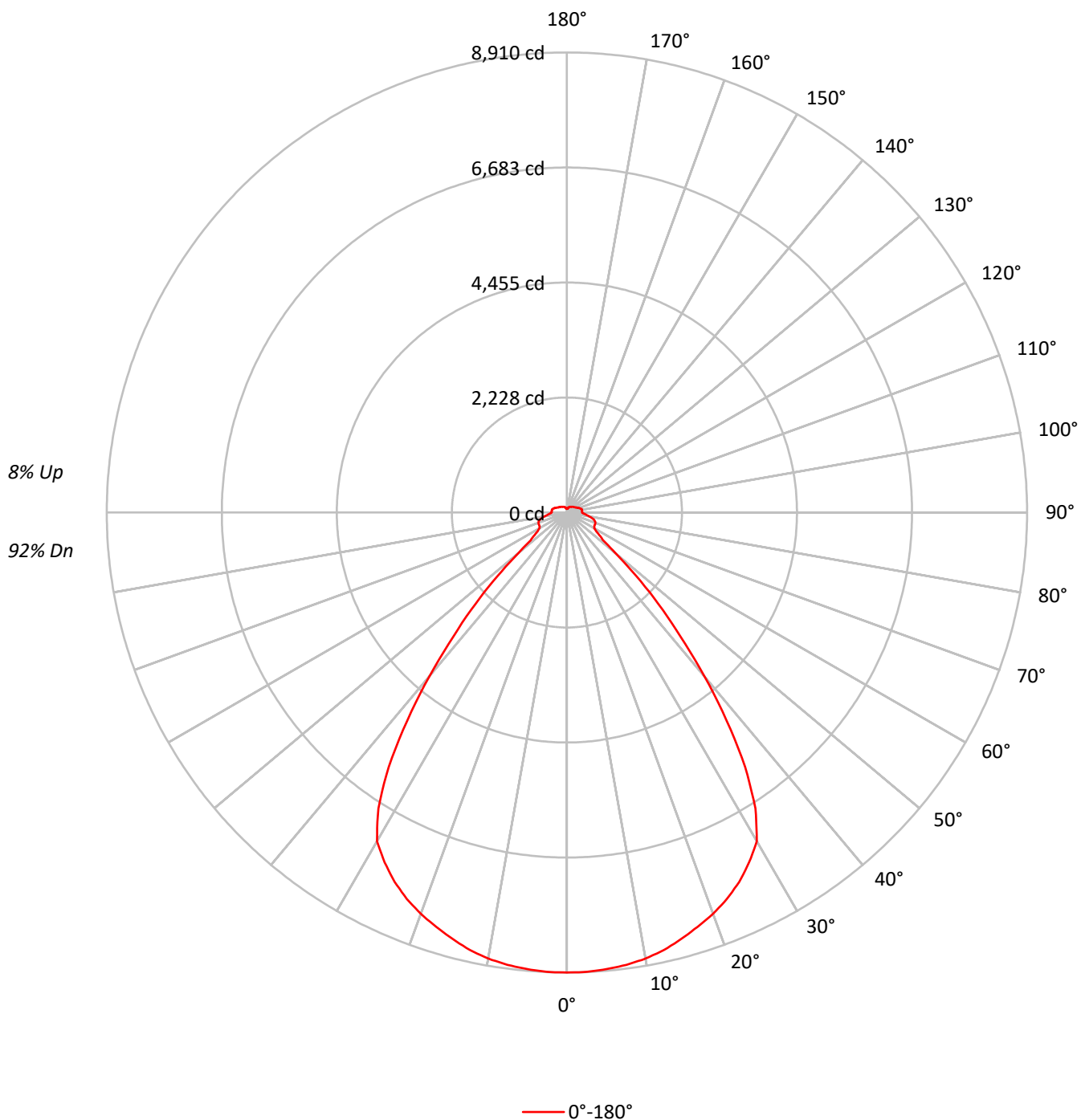
Lumens per Lamp: N/A
Luminaire Lumens: 16068.9 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.13
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')
CIE Type: Direct

Input Watts (W): 122.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 6.9
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	117	117	117	117	113	113	113	113	107	107	107		100	100	100		95
1	109	105	101	98	105	102	98	96	96	93	91		91	89	87		86
2	101	94	89	84	98	92	87	83	87	83	79		83	80	77		79
3	94	86	79	74	91	83	77	73	80	74	70		76	72	68		72
4	88	78	71	65	85	76	70	64	73	67	63		70	65	61		67
5	82	71	64	58	80	70	63	58	67	61	57		64	59	55		62
6	77	66	58	53	75	64	57	52	62	56	51		60	54	50		57
7	72	61	53	48	70	59	52	47	57	51	47		55	50	46		53
8	68	56	49	44	66	55	48	43	53	47	43		51	46	42		50
9	64	52	45	40	62	51	44	40	50	43	39		48	43	39		47
10	60	48	42	37	59	48	41	37	46	40	36		45	40	36		44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	72145
5°	69198
10°	66403
15°	63387
20°	60501
25°	57408
30°	53608
35°	44290
40°	31011
45°	19253
50°	9749
55°	6376
60°	5391
65°	5512
70°	5928
75°	6002
80°	5498
85°	4919

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19253 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	844.2	5.3
10°-20°	2414.0	15.0
20°-30°	3626.5	22.6
30°-40°	3672.4	22.9
40°-50°	1954.3	12.2
50°-60°	722.3	4.5
60°-70°	590.1	3.7
70°-80°	562.1	3.5
80°-90°	388.7	2.4
90°-100°	321.8	2.0
100°-110°	293.9	1.8
110°-120°	220.9	1.4
120°-130°	162.1	1.0
130°-140°	121.2	0.8
140°-150°	85.7	0.5
150°-160°	54.5	0.3
160°-170°	27.2	0.2
170°-180°	7.1	0.0
0°-30°	6884.6	42.8
0°-40°	10557.0	65.7
0°-60°	13233.6	82.4
0°-90°	14774.5	91.9
90°-120°	836.6	5.2
90°-150°	1205.6	7.5
90°-180°	1294.0	8.1
0°-180°	16068.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8910	
5°	8878	844
15°	8553	2414
25°	7892	3626
35°	6016	3672
45°	2504	1954
55°	767	722
65°	590	590
75°	542	562
85°	349	305
90°	294	164
95°	295	241
105°	280	294
115°	221	221
125°	179	162
135°	156	121
145°	136	86
155°	118	54
165°	95	27
175°	72	7
180°	70	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	8910.0
2.5°	8906.2
5°	8878.0
7.5°	8835.8
10°	8773.2
12.5°	8678.5
15°	8553.2
17.5°	8413.8
20°	8271.9
22.5°	8100.5
25°	7892.0
27.5°	7641.4
30°	7353.6
32.5°	6794.7
35°	6015.9
37.5°	5083.6
40°	4138.5
42.5°	3247.1
45°	2504.1
47.5°	1818.6
50°	1225.2
52.5°	883.7
55°	767.3
57.5°	670.1
60°	615.1
62.5°	597.2
65°	589.6
67.5°	590.8
70°	587.0
72.5°	572.9
75°	542.2
77.5°	496.2
80°	445.1
82.5°	393.9
85°	349.1
87.5°	313.3
90°	294.1
92.5°	292.9
95°	295.4
97.5°	296.7
100°	295.4
102.5°	290.3
105°	280.1
107.5°	267.3
110°	250.7

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	235.3
115°	221.2
117.5°	208.5
120°	196.9
122.5°	188.0
125°	179.0
127.5°	172.6
130°	167.5
132.5°	161.1
135°	156.0
137.5°	150.9
140°	145.8
142.5°	140.7
145°	135.6
147.5°	131.7
150°	126.6
152.5°	122.8
155°	117.7
157.5°	111.3
160°	106.1
162.5°	101.0
165°	94.6
167.5°	89.5
170°	80.6
172.5°	72.9
175°	71.6
177.5°	71.6
180°	70.3

(END OF REPORT)