

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: P980581

Luminaire Tested: UHBS2-1218-M-L83065-MID-5000K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980581
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-MID-5000K-FRR6
Description: UHBS2 LED High Bay at 5000K and MID lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

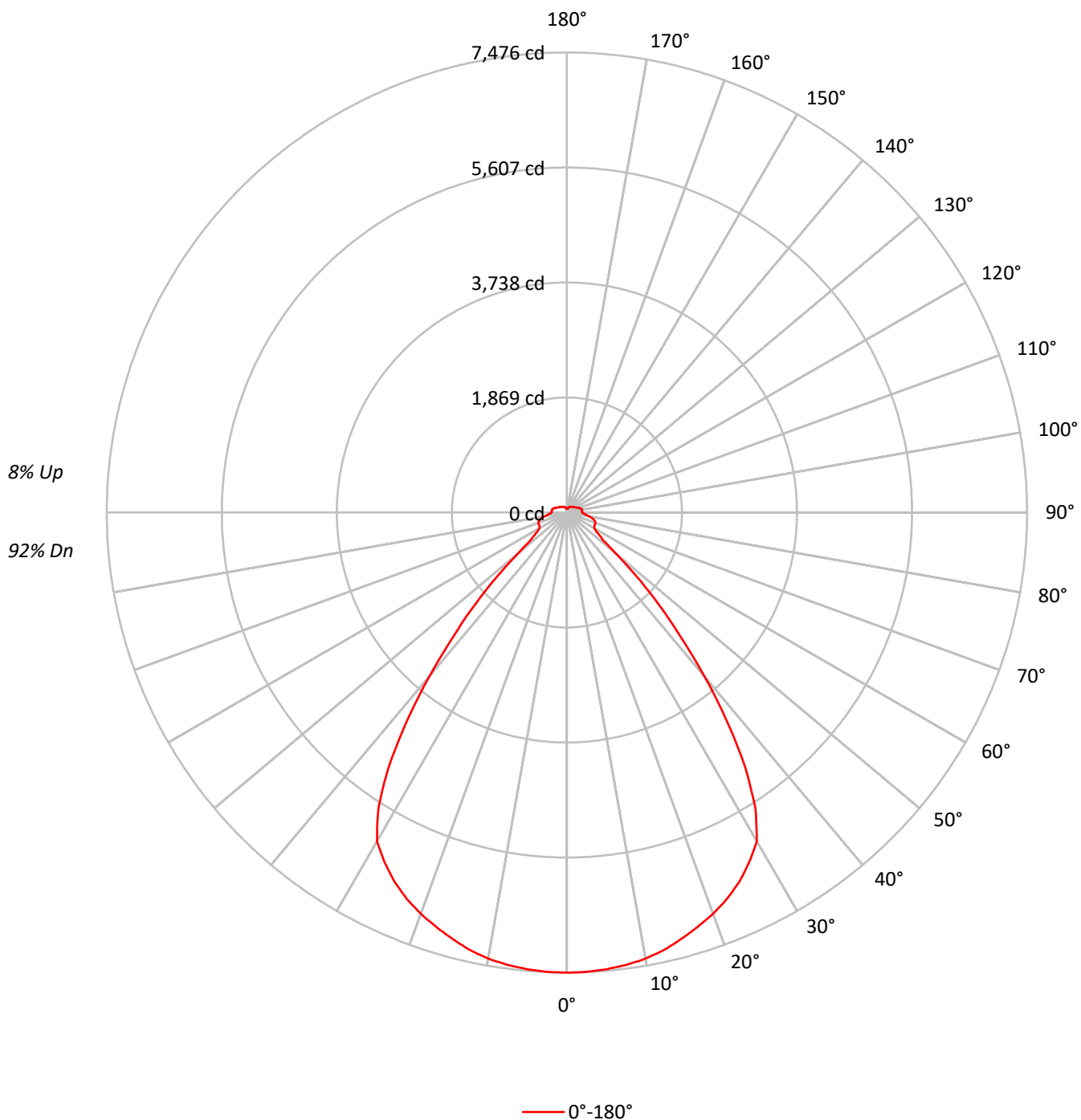
Lumens per Lamp: N/A
Luminaire Lumens: 13482.9 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.13
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')
CIE Type: Direct

Input Watts (W): 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

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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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	117	117	117	117	113	113	113	113	107	107	107		100	100	100		95	95	95	92
1	109	105	101	98	105	102	98	96	96	93	91		91	89	87		86	85	83	81
2	101	94	89	84	98	92	87	83	87	83	79		83	80	77		79	76	74	71
3	94	86	79	74	91	83	77	73	80	74	70		76	72	68		72	69	66	64
4	88	78	71	65	85	76	70	64	73	67	63		70	65	61		67	63	60	57
5	82	71	64	58	80	70	63	58	67	61	57		64	59	55		62	58	54	52
6	77	66	58	53	75	64	57	52	62	56	51		60	54	50		57	53	49	47
7	72	61	53	48	70	59	52	47	57	51	47		55	50	46		53	49	45	43
8	68	56	49	44	66	55	48	43	53	47	43		51	46	42		50	45	41	40
9	64	52	45	40	62	51	44	40	50	43	39		48	43	39		47	42	38	36
10	60	48	42	37	59	48	41	37	46	40	36		45	40	36		44	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	60534
5°	58062
10°	55717
15°	53186
20°	50765
25°	48170
30°	44981
35°	37162
40°	26020
45°	16155
50°	8179
55°	5350
60°	4524
65°	4625
70°	4973
75°	5037
80°	4612
85°	4127

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16155 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.3	5.3
10°-20°	2025.5	15.0
20°-30°	3042.9	22.6
30°-40°	3081.4	22.9
40°-50°	1639.7	12.2
50°-60°	606.1	4.5
60°-70°	495.2	3.7
70°-80°	471.6	3.5
80°-90°	326.2	2.4
90°-100°	270.0	2.0
100°-110°	246.6	1.8
110°-120°	185.3	1.4
120°-130°	136.1	1.0
130°-140°	101.7	0.8
140°-150°	71.9	0.5
150°-160°	45.7	0.3
160°-170°	22.8	0.2
170°-180°	5.9	0.0
0°-30°	5776.7	42.8
0°-40°	8858.1	65.7
0°-60°	11103.9	82.4
0°-90°	12396.9	91.9
90°-120°	702.0	5.2
90°-150°	1011.6	7.5
90°-180°	1086.0	8.1
0°-180°	13482.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7476	
5°	7449	708
15°	7177	2026
25°	6622	3043
35°	5048	3081
45°	2101	1640
55°	644	606
65°	495	495
75°	455	472
85°	293	256
90°	247	137
95°	248	203
105°	235	247
115°	186	185
125°	150	136
135°	131	102
145°	114	72
155°	99	46
165°	79	23
175°	60	6
180°	59	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	7476.1
2.5°	7472.9
5°	7449.3
7.5°	7413.9
10°	7361.3
12.5°	7281.9
15°	7176.7
17.5°	7059.8
20°	6940.7
22.5°	6796.9
25°	6622.0
27.5°	6411.6
30°	6170.2
32.5°	5701.3
35°	5047.7
37.5°	4265.5
40°	3472.5
42.5°	2724.5
45°	2101.1
47.5°	1525.9
50°	1028.0
52.5°	741.5
55°	643.8
57.5°	562.3
60°	516.1
62.5°	501.1
65°	494.7
67.5°	495.8
70°	492.5
72.5°	480.7
75°	455.0
77.5°	416.4
80°	373.4
82.5°	330.5
85°	292.9
87.5°	262.9
90°	246.8
92.5°	245.7
95°	247.9
97.5°	249.0
100°	247.9
102.5°	243.6
105°	235.0
107.5°	224.3
110°	210.3

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	197.4
115°	185.6
117.5°	174.9
120°	165.3
122.5°	157.7
125°	150.2
127.5°	144.9
130°	140.6
132.5°	135.2
135°	130.9
137.5°	126.6
140°	122.3
142.5°	118.0
145°	113.7
147.5°	110.5
150°	106.2
152.5°	103.0
155°	98.7
157.5°	93.4
160°	89.1
162.5°	84.8
165°	79.4
167.5°	75.1
170°	67.6
172.5°	61.2
175°	60.1
177.5°	60.1
180°	59.0

(END OF REPORT)