

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: P980590

Luminaire Tested: UHBS2-1218-N-L83065-HIGH-4000K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-9)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-N-L83065-HIGH-4000K-FRR6
Description: UHBS2 LED High Bay at 4000K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

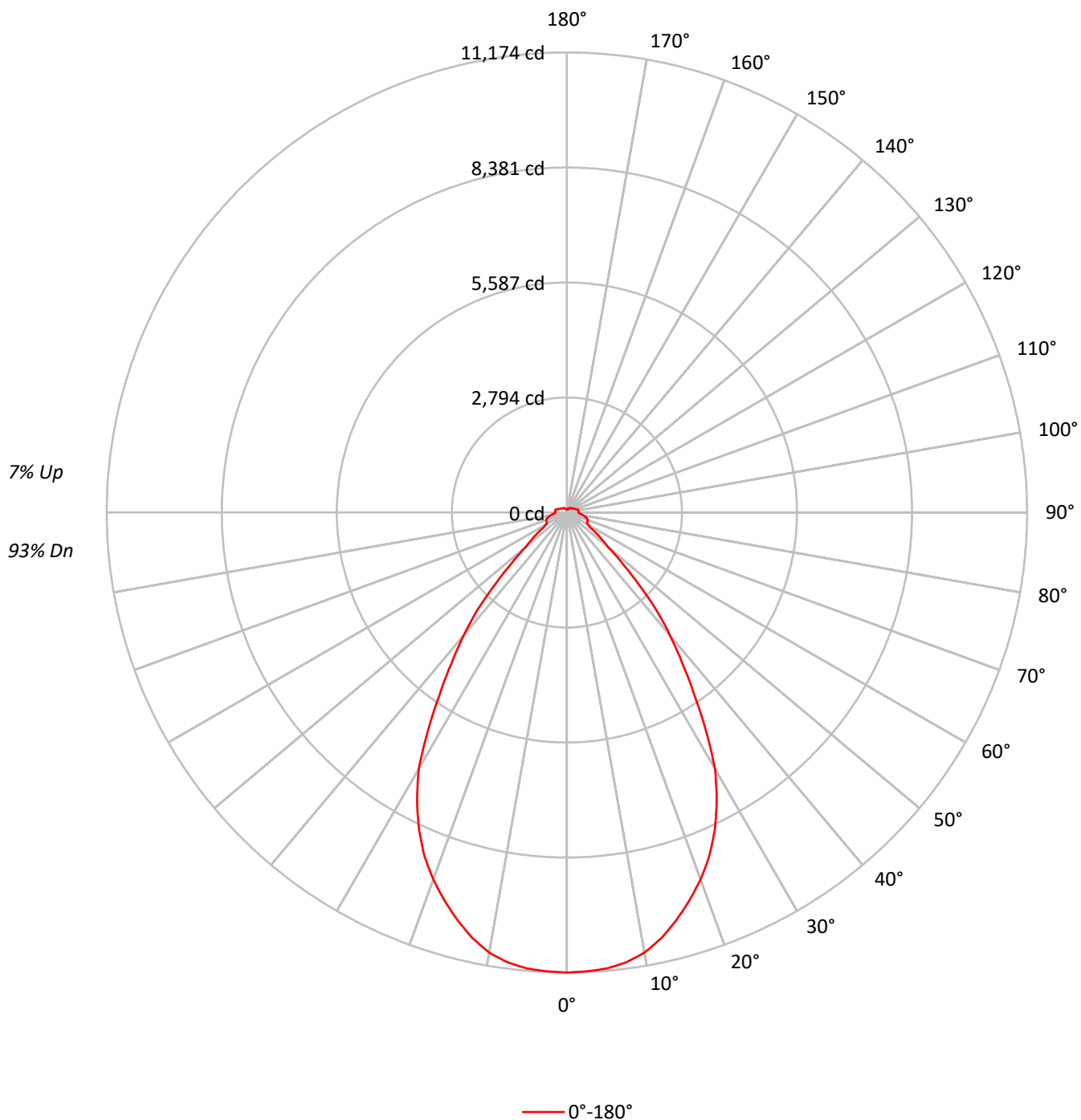
Lumens per Lamp: N/A
Luminaire Lumens: 16546.1 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')
CIE Type: Direct

Input Watts (W): 119.1
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

TEST NUMBER: P980590

CATALOG NUMBER: UHBS2-1218-N-L83065-HIGH-4000K-FRR6

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	114	114	114	114	107	107	107		101	101	101		95
1	109	105	102	99	106	102	99	97	97	94	92		92	90	88		87
2	102	95	90	85	99	93	88	84	88	84	81		84	81	78		80
3	95	87	80	75	92	85	79	74	81	76	72		77	73	70		74
4	89	79	72	67	86	78	71	66	74	69	65		71	67	63		69
5	83	73	66	60	81	71	65	60	69	63	58		66	61	57		64
6	78	67	60	55	76	66	59	54	64	58	53		61	56	52		59
7	73	62	55	50	71	61	54	50	59	53	49		57	52	48		55
8	69	58	51	46	67	57	50	46	55	49	45		53	48	44		52
9	65	54	47	42	64	53	47	42	52	46	42		50	45	41		49
10	62	50	44	39	60	50	43	39	48	43	39		47	42	38		46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	90480
5°	86644
10°	82150
15°	75997
20°	69379
25°	61807
30°	52423
35°	39632
40°	29176
45°	18887
50°	10422
55°	7149
60°	5141
65°	5043
70°	5405
75°	5405
80°	4920
85°	4522

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18887 cd/sqm

TEST NUMBER: P980590

CATALOG NUMBER: UHBS2-1218-N-L83065-HIGH-4000K-FRR6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1052.9	6.4
10°-20°	2878.2	17.4
20°-30°	3874.1	23.4
30°-40°	3381.8	20.4
40°-50°	1928.8	11.7
50°-60°	788.8	4.8
60°-70°	543.9	3.3
70°-80°	507.0	3.1
80°-90°	357.1	2.2
90°-100°	310.9	1.9
100°-110°	284.8	1.7
110°-120°	208.9	1.3
120°-130°	151.2	0.9
130°-140°	113.1	0.7
140°-150°	80.5	0.5
150°-160°	51.4	0.3
160°-170°	25.9	0.2
170°-180°	6.9	0.0
0°-30°	7805.1	47.2
0°-40°	11187.0	67.6
0°-60°	13904.5	84.0
0°-90°	15312.7	92.5
90°-120°	804.6	4.9
90°-150°	1149.3	6.9
90°-180°	1233.0	7.5
0°-180°	16546.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11174	
5°	11116	###
15°	10255	2878
25°	8497	3874
35°	5383	3382
45°	2456	1929
55°	860	789
65°	539	544
75°	488	507
85°	321	279
90°	279	155
95°	285	234
105°	272	285
115°	209	209
125°	167	151
135°	145	113
145°	127	80
155°	111	51
165°	91	26
175°	70	7
180°	69	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	11174.5
2.5°	11156.5
5°	11116.4
7.5°	11022.3
10°	10853.6
12.5°	10590.8
15°	10254.7
17.5°	9881.2
20°	9485.7
22.5°	9034.7
25°	8496.7
27.5°	7878.4
30°	7191.0
32.5°	6276.7
35°	5383.2
37.5°	4590.7
40°	3893.6
42.5°	3224.1
45°	2456.5
47.5°	1825.8
50°	1309.8
52.5°	1070.6
55°	860.3
57.5°	666.7
60°	586.5
62.5°	551.9
65°	539.4
67.5°	540.8
70°	535.3
72.5°	518.7
75°	488.3
77.5°	445.4
80°	398.3
82.5°	356.9
85°	320.9
87.5°	293.2
90°	279.4
92.5°	282.2
95°	284.9
97.5°	289.1
100°	287.7
102.5°	282.2
105°	272.5
107.5°	257.3
110°	240.7



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	224.1
115°	208.9
117.5°	195.0
120°	184.0
122.5°	175.7
125°	167.4
127.5°	160.4
130°	154.9
132.5°	150.8
135°	145.2
137.5°	141.1
140°	136.9
142.5°	132.8
145°	127.2
147.5°	123.1
150°	119.0
152.5°	114.8
155°	110.7
157.5°	106.5
160°	101.0
162.5°	95.4
165°	91.3
167.5°	84.4
170°	77.5
172.5°	70.5
175°	70.5
177.5°	69.2
180°	69.2

(END OF REPORT)