

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: P926795

Luminaire Tested: UHBS2-1218-N-L83065-MID-3000K

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926795
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-MID-3000K
Description: UHBS2 LED High Bay at 3000K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

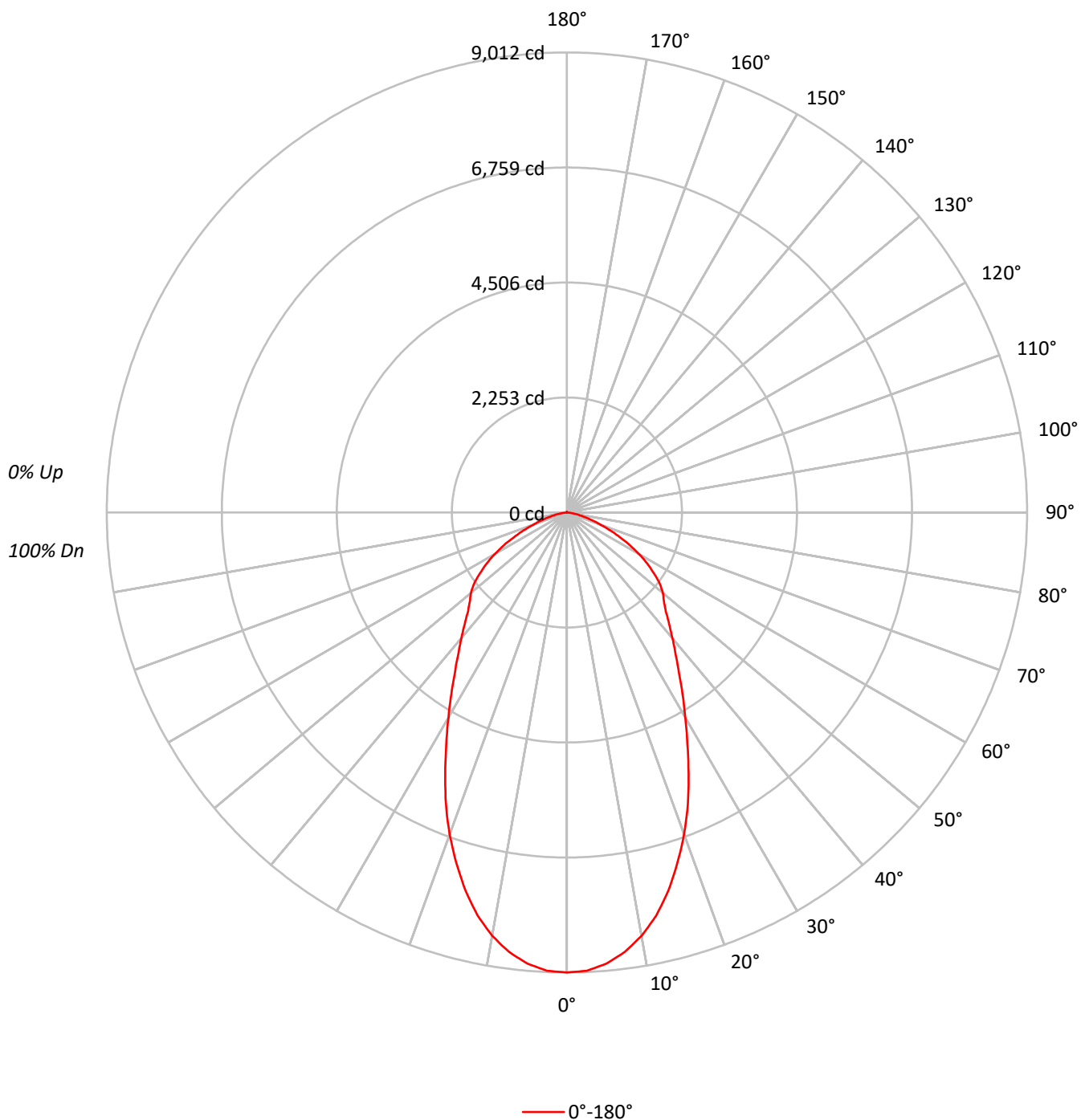
Lumens per Lamp: N/A
Luminaire Lumens: 13629.0 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 98.9
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
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°	123503
5°	120677
10°	114608
15°	105258
20°	93551
25°	80449
30°	68377
35°	58686
40°	51929
45°	47076
50°	45431
55°	42093
60°	36792
65°	29223
70°	21113
75°	13909
80°	8126
85°	3670

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 47076 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	832.4	6.1
10°-20°	2137.9	15.7
20°-30°	2588.2	19.0
30°-40°	2409.2	17.7
40°-50°	2142.6	15.7
50°-60°	1852.0	13.6
60°-70°	1144.6	8.4
70°-80°	431.6	3.2
80°-90°	76.8	0.6
90°-100°	2.0	0.0
100°-110°	1.2	0.0
110°-120°	1.1	0.0
120°-130°	1.3	0.0
130°-140°	1.7	0.0
140°-150°	1.8	0.0
150°-160°	2.1	0.0
160°-170°	1.7	0.0
170°-180°	0.7	0.0
0°-30°	5558.5	40.8
0°-40°	7967.8	58.5
0°-60°	11962.3	87.8
0°-90°	13615.3	99.9
90°-120°	4.2	0.0
90°-150°	9.1	0.1
90°-180°	14.0	0.1
0°-180°	13629.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9012	
5°	8870	832
15°	7672	2138
25°	5636	2588
35°	3820	2409
45°	2738	2143
55°	2082	1852
65°	1147	1145
75°	388	432
85°	57	73
90°	7	5
95°	1	1
105°	1	1
115°	1	1
125°	1	1
135°	2	2
145°	3	2
155°	4	2
165°	7	2
175°	8	1
180°	9	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	9011.5
2.5°	8985.1
5°	8869.5
7.5°	8682.3
10°	8420.3
12.5°	8085.6
15°	7671.6
17.5°	7198.2
20°	6711.6
22.5°	6189.7
25°	5635.9
27.5°	5113.0
30°	4638.4
32.5°	4210.2
35°	3820.4
37.5°	3495.6
40°	3212.7
42.5°	2961.6
45°	2738.1
47.5°	2575.2
50°	2454.1
52.5°	2294.4
55°	2082.0
57.5°	1866.2
60°	1638.3
62.5°	1393.8
65°	1147.2
67.5°	920.4
70°	711.2
72.5°	537.3
75°	387.5
77.5°	270.8
80°	177.3
82.5°	109.0
85°	57.3
87.5°	24.2
90°	6.6
92.5°	1.1
95°	1.1
97.5°	1.1
100°	1.1
102.5°	1.1
105°	1.1
107.5°	1.1
110°	1.1



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.1
115°	1.1
117.5°	1.1
120°	1.1
122.5°	1.1
125°	1.1
127.5°	2.2
130°	2.2
132.5°	2.2
135°	2.2
137.5°	2.2
140°	2.2
142.5°	2.2
145°	3.3
147.5°	3.3
150°	3.3
152.5°	4.4
155°	4.4
157.5°	5.5
160°	5.5
162.5°	5.5
165°	6.6
167.5°	6.6
170°	6.6
172.5°	7.7
175°	7.7
177.5°	7.7
180°	8.8

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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	24.36	25.81	24.72	26.13	26.45	24.36	25.81	24.72	26.13	26.45
	3H	25.27	26.57	25.65	26.90	27.26	25.27	26.57	25.65	26.90	27.26
	4H	25.45	26.67	25.85	27.02	27.40	25.45	26.67	25.85	27.02	27.40
	6H	25.51	26.63	25.92	27.00	27.39	25.51	26.63	25.92	27.00	27.39
	8H	25.50	26.56	25.93	26.95	27.36	25.50	26.56	25.93	26.95	27.36
	12H	25.47	26.49	25.91	26.88	27.31	25.47	26.49	25.91	26.88	27.31
4H	2H	24.70	25.92	25.10	26.27	26.65	24.70	25.92	25.10	26.27	26.65
	3H	25.73	26.74	26.15	27.14	27.54	25.73	26.74	26.15	27.14	27.54
	4H	25.97	26.87	26.40	27.29	27.73	25.97	26.87	26.40	27.29	27.73
	6H	26.07	26.85	26.53	27.29	27.76	26.07	26.85	26.53	27.29	27.76
	8H	26.06	26.79	26.53	27.24	27.71	26.06	26.79	26.53	27.24	27.71
	12H	26.05	26.69	26.53	27.17	27.65	26.05	26.69	26.53	27.17	27.65
8H	4H	26.00	26.73	26.47	27.17	27.65	26.00	26.73	26.47	27.17	27.65
	6H	26.12	26.72	26.62	27.21	27.69	26.12	26.72	26.62	27.21	27.69
	8H	26.12	26.66	26.64	27.17	27.66	26.12	26.66	26.64	27.17	27.66
	12H	26.12	26.59	26.64	27.09	27.66	26.12	26.59	26.64	27.09	27.66
12H	4H	25.98	26.62	26.46	27.10	27.58	25.98	26.62	26.46	27.10	27.58
	6H	26.09	26.62	26.60	27.13	27.63	26.09	26.62	26.60	27.13	27.63
	8H	26.12	26.58	26.63	27.08	27.65	26.12	26.58	26.63	27.08	27.65