

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: P926799

Luminaire Tested: UHBS2-1218-N-L83065-MID-6500K

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926799
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-6500K
Description: UHBS2 LED High Bay at 6500K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

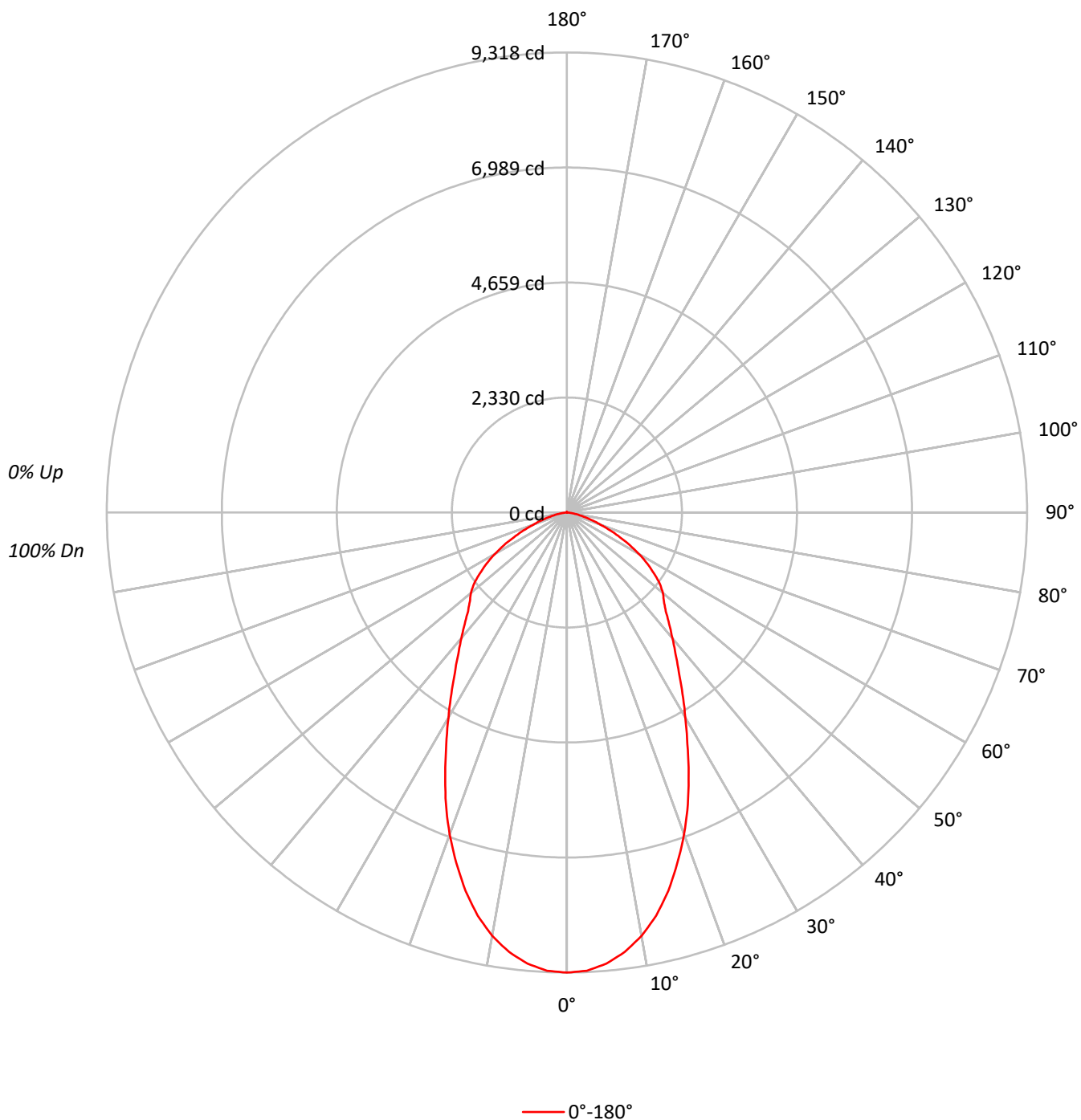
Lumens per Lamp: N/A
Luminaire Lumens: 14091.9 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 98.7
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°	127699
5°	124776
10°	118502
15°	108834
20°	96729
25°	83182
30°	70701
35°	60680
40°	53693
45°	48676
50°	46975
55°	43523
60°	38041
65°	30217
70°	21831
75°	14383
80°	8401
85°	3791

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 48676 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	860.7	6.1
10°-20°	2210.5	15.7
20°-30°	2676.2	19.0
30°-40°	2491.1	17.7
40°-50°	2215.4	15.7
50°-60°	1914.9	13.6
60°-70°	1183.5	8.4
70°-80°	446.3	3.2
80°-90°	79.4	0.6
90°-100°	2.0	0.0
100°-110°	1.2	0.0
110°-120°	1.1	0.0
120°-130°	1.4	0.0
130°-140°	1.8	0.0
140°-150°	1.9	0.0
150°-160°	2.2	0.0
160°-170°	1.8	0.0
170°-180°	0.7	0.0
0°-30°	5747.4	40.8
0°-40°	8238.5	58.5
0°-60°	12368.8	87.8
0°-90°	14077.9	99.9
90°-120°	4.2	0.0
90°-150°	9.3	0.1
90°-180°	14.0	0.1
0°-180°	14091.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9318	
5°	9171	861
15°	7932	2211
25°	5827	2676
35°	3950	2491
45°	2831	2215
55°	2153	1915
65°	1186	1183
75°	401	446
85°	59	75
90°	7	5
95°	1	1
105°	1	1
115°	1	1
125°	1	1
135°	2	2
145°	3	2
155°	5	2
165°	7	2
175°	8	1
180°	9	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	9317.7
2.5°	9290.3
5°	9170.8
7.5°	8977.3
10°	8706.4
12.5°	8360.3
15°	7932.3
17.5°	7442.7
20°	6939.6
22.5°	6400.0
25°	5827.4
27.5°	5286.7
30°	4796.0
32.5°	4353.2
35°	3950.2
37.5°	3614.4
40°	3321.8
42.5°	3062.3
45°	2831.2
47.5°	2662.7
50°	2537.5
52.5°	2372.4
55°	2152.7
57.5°	1929.6
60°	1693.9
62.5°	1441.2
65°	1186.2
67.5°	951.7
70°	735.4
72.5°	555.5
75°	400.7
77.5°	280.0
80°	183.3
82.5°	112.7
85°	59.2
87.5°	25.0
90°	6.8
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°	2.3
130°	2.3
132.5°	2.3
135°	2.3
137.5°	2.3
140°	2.3
142.5°	2.3
145°	3.4
147.5°	3.4
150°	3.4
152.5°	4.6
155°	4.6
157.5°	5.7
160°	5.7
162.5°	5.7
165°	6.8
167.5°	6.8
170°	6.8
172.5°	8.0
175°	8.0
177.5°	8.0
180°	9.1

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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	24.47	25.93	24.84	26.24	26.56	24.47	25.93	24.84	26.24	26.56
	3H	25.38	26.68	25.76	27.01	27.38	25.38	26.68	25.76	27.01	27.38
	4H	25.57	26.79	25.97	27.14	27.52	25.57	26.79	25.97	27.14	27.52
	6H	25.62	26.74	26.04	27.11	27.51	25.62	26.74	26.04	27.11	27.51
	8H	25.61	26.68	26.04	27.07	27.48	25.61	26.68	26.04	27.07	27.48
	12H	25.59	26.61	26.02	26.99	27.43	25.59	26.61	26.02	26.99	27.43
4H	2H	24.81	26.03	25.22	26.38	26.77	24.81	26.03	25.22	26.38	26.77
	3H	25.85	26.85	26.26	27.26	27.66	25.85	26.85	26.26	27.26	27.66
	4H	26.08	26.98	26.52	27.40	27.85	26.08	26.98	26.52	27.40	27.85
	6H	26.18	26.96	26.65	27.41	27.87	26.18	26.96	26.65	27.41	27.87
	8H	26.18	26.91	26.65	27.35	27.82	26.18	26.91	26.65	27.35	27.82
	12H	26.16	26.81	26.65	27.29	27.76	26.16	26.81	26.65	27.29	27.76
8H	4H	26.12	26.84	26.58	27.29	27.76	26.12	26.84	26.58	27.29	27.76
	6H	26.24	26.83	26.74	27.33	27.81	26.24	26.83	26.74	27.33	27.81
	8H	26.24	26.77	26.76	27.29	27.78	26.24	26.77	26.76	27.29	27.78
	12H	26.24	26.71	26.75	27.20	27.77	26.24	26.71	26.75	27.20	27.77
12H	4H	26.09	26.74	26.58	27.22	27.69	26.09	26.74	26.58	27.22	27.69
	6H	26.20	26.74	26.72	27.25	27.74	26.20	26.74	26.72	27.25	27.74
	8H	26.23	26.70	26.75	27.20	27.77	26.23	26.70	26.75	27.20	27.77