

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: P926796

Luminaire Tested: UHBS2-1218-N-L83065-MID-3500K

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926796
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-3500K
Description: UHBS2 LED High Bay at 3500K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

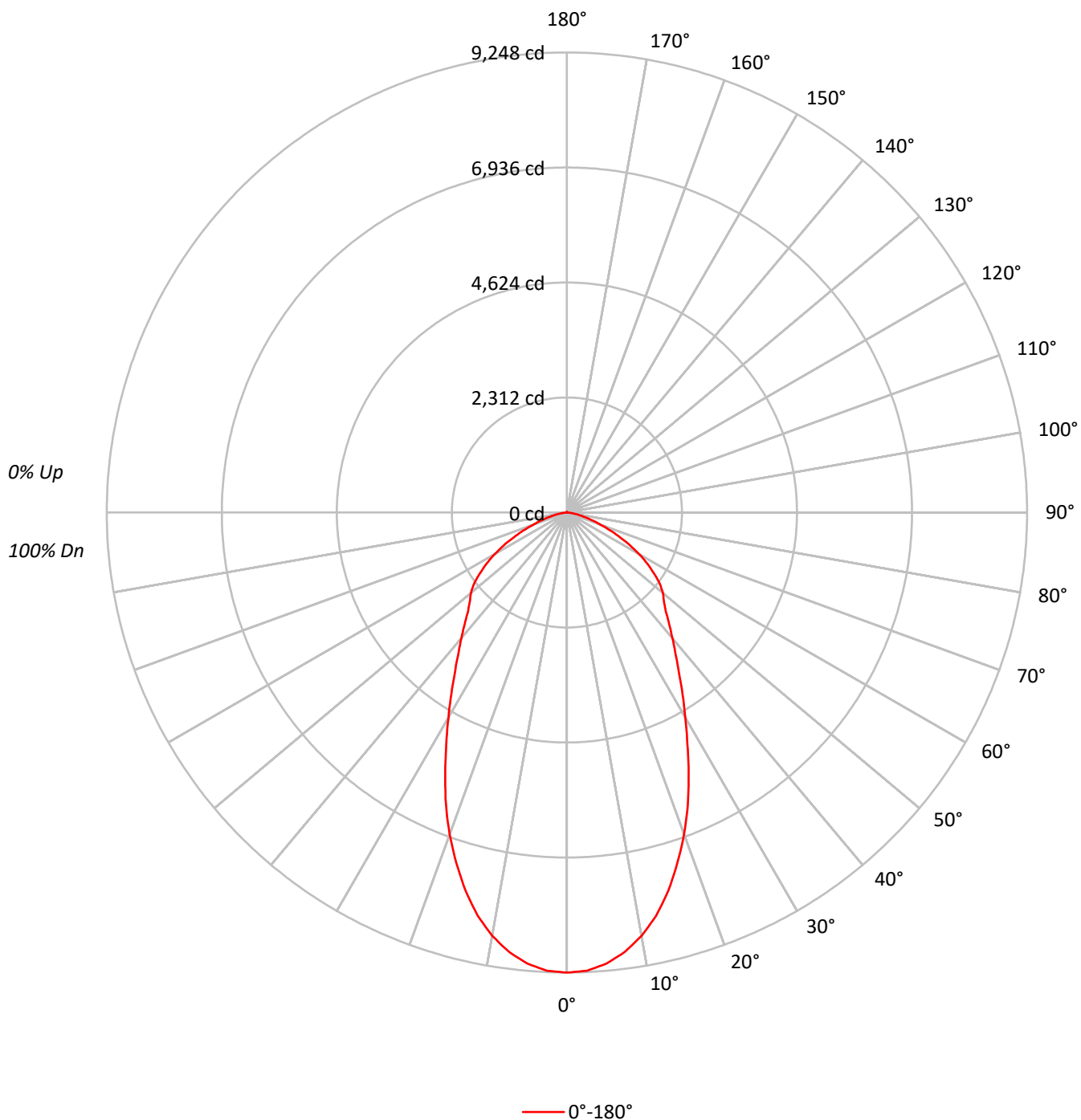
Lumens per Lamp: N/A
Luminaire Lumens: 13986.0 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 97.6
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
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°	126739
5°	123838
10°	117610
15°	108015
20°	96001
25°	82557
30°	70168
35°	60224
40°	53289
45°	48310
50°	46621
55°	43195
60°	37756
65°	29990
70°	21668
75°	14276
80°	8337
85°	3766

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 48310 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	854.2	6.1
10°-20°	2193.9	15.7
20°-30°	2656.0	19.0
30°-40°	2472.3	17.7
40°-50°	2198.7	15.7
50°-60°	1900.5	13.6
60°-70°	1174.6	8.4
70°-80°	443.0	3.2
80°-90°	78.9	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°	5704.2	40.8
0°-40°	8176.5	58.5
0°-60°	12275.7	87.8
0°-90°	13972.1	99.9
90°-120°	4.2	0.0
90°-150°	9.3	0.1
90°-180°	14.0	0.1
0°-180°	13986.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9248	
5°	9102	854
15°	7873	2194
25°	5784	2656
35°	3920	2472
45°	2810	2199
55°	2136	1900
65°	1177	1175
75°	398	443
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°	4	2
165°	7	2
175°	8	1
180°	9	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	9247.6
2.5°	9220.5
5°	9101.8
7.5°	8909.8
10°	8640.9
12.5°	8297.4
15°	7872.6
17.5°	7386.8
20°	6887.4
22.5°	6351.8
25°	5783.6
27.5°	5246.9
30°	4759.9
32.5°	4320.4
35°	3920.5
37.5°	3587.2
40°	3296.8
42.5°	3039.2
45°	2809.9
47.5°	2642.6
50°	2518.4
52.5°	2354.5
55°	2136.5
57.5°	1915.0
60°	1681.2
62.5°	1430.4
65°	1177.3
67.5°	944.5
70°	729.9
72.5°	551.4
75°	397.7
77.5°	277.9
80°	181.9
82.5°	111.9
85°	58.8
87.5°	24.9
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°	4.5
155°	4.5
157.5°	5.6
160°	5.6
162.5°	5.6
165°	6.8
167.5°	6.8
170°	6.8
172.5°	7.9
175°	7.9
177.5°	7.9
180°	9.0

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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	24.45	25.90	24.81	26.22	26.54	24.45	25.90	24.81	26.22	26.54
	3H	25.36	26.66	25.74	26.99	27.35	25.36	26.66	25.74	26.99	27.35
	4H	25.54	26.76	25.94	27.11	27.49	25.54	26.76	25.94	27.11	27.49
	6H	25.60	26.72	26.01	27.09	27.48	25.60	26.72	26.01	27.09	27.48
	8H	25.59	26.65	26.01	27.04	27.45	25.59	26.65	26.01	27.04	27.45
	12H	25.56	26.58	26.00	26.97	27.40	25.56	26.58	26.00	26.97	27.40
4H	2H	24.79	26.01	25.19	26.36	26.74	24.79	26.01	25.19	26.36	26.74
	3H	25.82	26.83	26.24	27.23	27.63	25.82	26.83	26.24	27.23	27.63
	4H	26.06	26.96	26.49	27.38	27.82	26.06	26.96	26.49	27.38	27.82
	6H	26.16	26.94	26.62	27.38	27.85	26.16	26.94	26.62	27.38	27.85
	8H	26.15	26.88	26.62	27.33	27.80	26.15	26.88	26.62	27.33	27.80
	12H	26.14	26.78	26.62	27.26	27.74	26.14	26.78	26.62	27.26	27.74
8H	4H	26.09	26.82	26.56	27.26	27.74	26.09	26.82	26.56	27.26	27.74
	6H	26.21	26.81	26.71	27.30	27.78	26.21	26.81	26.71	27.30	27.78
	8H	26.21	26.75	26.73	27.26	27.75	26.21	26.75	26.73	27.26	27.75
	12H	26.21	26.68	26.73	27.18	27.75	26.21	26.68	26.73	27.18	27.75
12H	4H	26.07	26.71	26.55	27.19	27.67	26.07	26.71	26.55	27.19	27.67
	6H	26.18	26.71	26.69	27.22	27.72	26.18	26.71	26.69	27.22	27.72
	8H	26.21	26.67	26.72	27.17	27.74	26.21	26.67	26.72	27.17	27.74