

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: P926831

Luminaire Tested: UHBS2-2436-N-L83065-HIGH-3500K

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926831
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: UHBS2-2436-N-L83065-HIGH-3500K
Description: UHBS2 LED High Bay at 3500K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

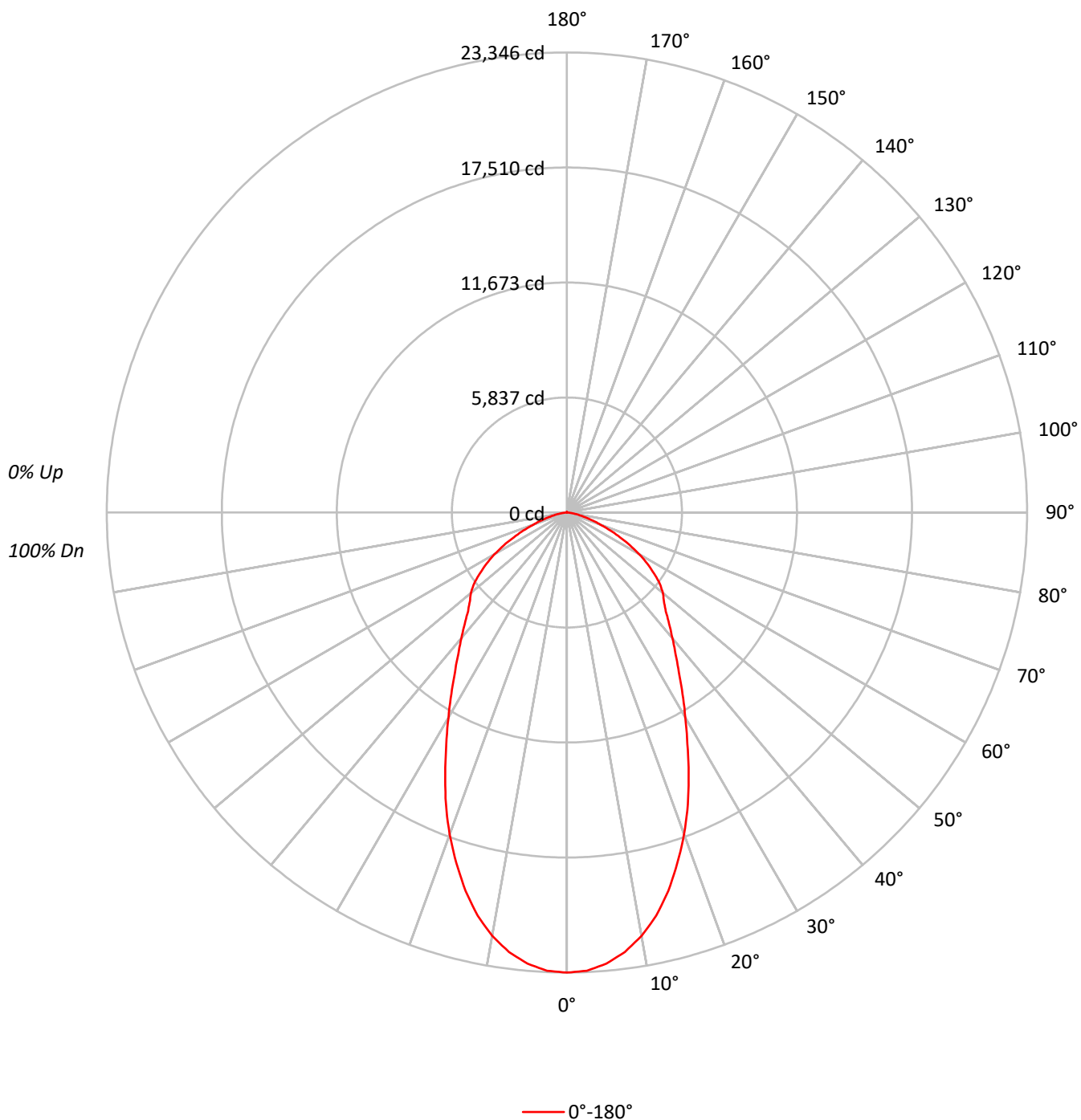
Lumens per Lamp: N/A
Luminaire Lumens: 35308.2 lumens
Efficiency: N/A
Efficacy: 149.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 235.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.999
Total Harmonic Distortion (THDi): 5.15
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°	231746
5°	226815
10°	215760
15°	198485
20°	176707
25°	152228
30°	129629
35°	111480
40°	98862
45°	89847
50°	86954
55°	80835
60°	70946
65°	56647
70°	41210
75°	27419
80°	16259
85°	7545

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 89847 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2156.4	6.1
10°-20°	5538.6	15.7
20°-30°	6705.2	19.0
30°-40°	6241.4	17.7
40°-50°	5550.8	15.7
50°-60°	4797.8	13.6
60°-70°	2965.3	8.4
70°-80°	1118.3	3.2
80°-90°	198.9	0.6
90°-100°	5.1	0.0
100°-110°	3.1	0.0
110°-120°	2.9	0.0
120°-130°	3.5	0.0
130°-140°	4.4	0.0
140°-150°	4.7	0.0
150°-160°	5.5	0.0
160°-170°	4.5	0.0
170°-180°	1.9	0.0
0°-30°	14400.3	40.8
0°-40°	20641.7	58.5
0°-60°	30990.2	87.8
0°-90°	35272.7	99.9
90°-120°	11.1	0.0
90°-150°	23.7	0.1
90°-180°	36.0	0.1
0°-180°	35308.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	23346	
5°	22978	###
15°	19874	5539
25°	14601	6705
35°	9897	6241
45°	7094	5551
55°	5394	4798
65°	2972	2965
75°	1004	1118
85°	148	188
90°	17	14
95°	3	2
105°	3	3
115°	3	3
125°	3	4
135°	6	4
145°	9	5
155°	11	6
165°	17	4
175°	20	2
180°	23	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	23345.7
2.5°	23277.3
5°	22977.8
7.5°	22492.9
10°	21814.1
12.5°	20947.0
15°	19874.5
17.5°	18648.1
20°	17387.4
22.5°	16035.4
25°	14600.7
27.5°	13245.9
30°	12016.6
32.5°	10907.0
35°	9897.3
37.5°	9055.9
40°	8322.9
42.5°	7672.6
45°	7093.6
47.5°	6671.4
50°	6357.7
52.5°	5944.1
55°	5393.6
57.5°	4834.6
60°	4244.2
62.5°	3611.0
65°	2972.1
67.5°	2384.5
70°	1842.6
72.5°	1391.9
75°	1004.0
77.5°	701.7
80°	459.2
82.5°	282.4
85°	148.3
87.5°	62.7
90°	17.1
92.5°	2.9
95°	2.9
97.5°	2.9
100°	2.9
102.5°	2.9
105°	2.9
107.5°	2.9
110°	2.9

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	2.9
115°	2.9
117.5°	2.9
120°	2.9
122.5°	2.9
125°	2.9
127.5°	5.7
130°	5.7
132.5°	5.7
135°	5.7
137.5°	5.7
140°	5.7
142.5°	5.7
145°	8.6
147.5°	8.6
150°	8.6
152.5°	11.4
155°	11.4
157.5°	14.3
160°	14.3
162.5°	14.3
165°	17.1
167.5°	17.1
170°	17.1
172.5°	20.0
175°	20.0
177.5°	20.0
180°	22.8

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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	26.65	28.11	27.02	28.42	28.74	26.65	28.11	27.02	28.42	28.74
	3H	27.57	28.87	27.95	29.20	29.57	27.57	28.87	27.95	29.20	29.57
	4H	27.76	28.98	28.16	29.33	29.71	27.76	28.98	28.16	29.33	29.71
	6H	27.82	28.94	28.23	29.31	29.70	27.82	28.94	28.23	29.31	29.70
	8H	27.81	28.87	28.24	29.27	29.67	27.81	28.87	28.24	29.27	29.67
	12H	27.79	28.81	28.22	29.19	29.62	27.79	28.81	28.22	29.19	29.62
4H	2H	27.00	28.21	27.40	28.57	28.95	27.00	28.21	27.40	28.57	28.95
	3H	28.04	29.05	28.46	29.45	29.86	28.04	29.05	28.46	29.45	29.86
	4H	28.29	29.19	28.72	29.60	30.05	28.29	29.19	28.72	29.60	30.05
	6H	28.39	29.17	28.85	29.61	30.08	28.39	29.17	28.85	29.61	30.08
	8H	28.39	29.11	28.85	29.56	30.03	28.39	29.11	28.85	29.56	30.03
	12H	28.37	29.02	28.86	29.50	29.97	28.37	29.02	28.86	29.50	29.97
8H	4H	28.32	29.05	28.79	29.49	29.97	28.32	29.05	28.79	29.49	29.97
	6H	28.45	29.04	28.95	29.54	30.02	28.45	29.04	28.95	29.54	30.02
	8H	28.45	28.99	28.97	29.50	29.99	28.45	28.99	28.97	29.50	29.99
	12H	28.45	28.92	28.97	29.42	29.99	28.45	28.92	28.97	29.42	29.99
12H	4H	28.30	28.94	28.78	29.42	29.90	28.30	28.94	28.78	29.42	29.90
	6H	28.41	28.95	28.93	29.46	29.95	28.41	28.95	28.93	29.46	29.95
	8H	28.44	28.91	28.96	29.41	29.98	28.44	28.91	28.96	29.41	29.98