

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: P926833

Luminaire Tested: UHBS2-2436-N-L83065-HIGH-5000K

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926833
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-5000K
Description: UHBS2 LED High Bay at 5000K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

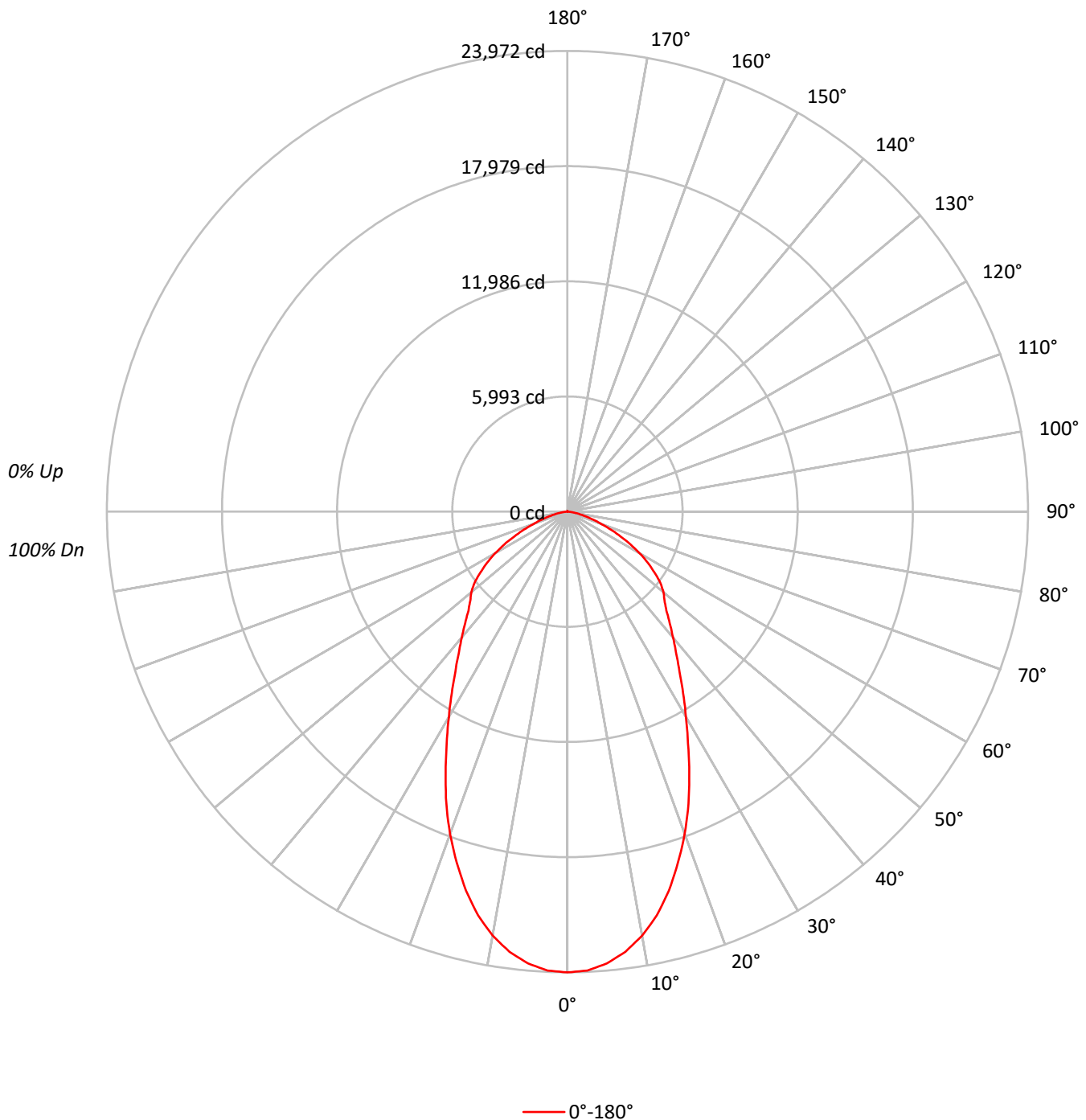
Lumens per Lamp: N/A
Luminaire Lumens: 36254.9 lumens
Efficiency: N/A
Efficacy: 155.3 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 233.5
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°	237962
5°	232898
10°	221547
15°	203809
20°	181446
25°	156311
30°	133106
35°	114470
40°	101513
45°	92256
50°	89286
55°	83004
60°	72848
65°	58166
70°	42315
75°	28153
80°	16694
85°	7749

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 92256 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2214.3	6.1
10°-20°	5687.1	15.7
20°-30°	6885.1	19.0
30°-40°	6408.8	17.7
40°-50°	5699.6	15.7
50°-60°	4926.4	13.6
60°-70°	3044.8	8.4
70°-80°	1148.2	3.2
80°-90°	204.3	0.6
90°-100°	5.2	0.0
100°-110°	3.1	0.0
110°-120°	2.9	0.0
120°-130°	3.6	0.0
130°-140°	4.6	0.0
140°-150°	4.8	0.0
150°-160°	5.7	0.0
160°-170°	4.6	0.0
170°-180°	1.9	0.0
0°-30°	14786.5	40.8
0°-40°	21195.3	58.5
0°-60°	31821.4	87.8
0°-90°	36218.7	99.9
90°-120°	11.1	0.0
90°-150°	24.1	0.1
90°-180°	36.0	0.1
0°-180°	36254.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	23972	
5°	23594	###
15°	20408	5687
25°	14992	6885
35°	10163	6409
45°	7284	5700
55°	5538	4926
65°	3052	3045
75°	1031	1148
85°	152	193
90°	18	14
95°	3	2
105°	3	3
115°	3	3
125°	3	4
135°	6	5
145°	9	5
155°	12	6
165°	18	5
175°	20	2
180°	23	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	23971.9
2.5°	23901.6
5°	23594.1
7.5°	23096.2
10°	22399.2
12.5°	21508.8
15°	20407.6
17.5°	19148.2
20°	17853.7
22.5°	16465.5
25°	14992.3
27.5°	13601.2
30°	12338.9
32.5°	11199.6
35°	10162.8
37.5°	9298.8
40°	8546.1
42.5°	7878.4
45°	7283.8
47.5°	6850.4
50°	6528.2
52.5°	6103.5
55°	5538.3
57.5°	4964.2
60°	4358.0
62.5°	3707.8
65°	3051.8
67.5°	2448.4
70°	1892.0
72.5°	1429.2
75°	1030.9
77.5°	720.5
80°	471.5
82.5°	289.9
85°	152.3
87.5°	64.4
90°	17.6
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°	5.9
130°	5.9
132.5°	5.9
135°	5.9
137.5°	5.9
140°	5.9
142.5°	5.9
145°	8.8
147.5°	8.8
150°	8.8
152.5°	11.7
155°	11.7
157.5°	14.6
160°	14.6
162.5°	14.6
165°	17.6
167.5°	17.6
170°	17.6
172.5°	20.5
175°	20.5
177.5°	20.5
180°	23.4

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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	26.74	28.20	27.11	28.51	28.83	26.74	28.20	27.11	28.51	28.83
	3H	27.66	28.96	28.04	29.29	29.66	27.66	28.96	28.04	29.29	29.66
	4H	27.85	29.07	28.25	29.42	29.80	27.85	29.07	28.25	29.42	29.80
	6H	27.91	29.03	28.32	29.40	29.80	27.91	29.03	28.32	29.40	29.80
	8H	27.90	28.97	28.33	29.36	29.76	27.90	28.97	28.33	29.36	29.76
	12H	27.88	28.90	28.31	29.28	29.72	27.88	28.90	28.31	29.28	29.72
4H	2H	27.09	28.31	27.49	28.66	29.04	27.09	28.31	27.49	28.66	29.04
	3H	28.14	29.14	28.55	29.54	29.95	28.14	29.14	28.55	29.54	29.95
	4H	28.38	29.28	28.81	29.70	30.14	28.38	29.28	28.81	29.70	30.14
	6H	28.48	29.26	28.94	29.71	30.17	28.48	29.26	28.94	29.71	30.17
	8H	28.48	29.20	28.94	29.65	30.12	28.48	29.20	28.94	29.65	30.12
	12H	28.46	29.11	28.95	29.59	30.06	28.46	29.11	28.95	29.59	30.06
8H	4H	28.41	29.14	28.88	29.59	30.06	28.41	29.14	28.88	29.59	30.06
	6H	28.54	29.13	29.04	29.63	30.11	28.54	29.13	29.04	29.63	30.11
	8H	28.54	29.08	29.06	29.59	30.08	28.54	29.08	29.06	29.59	30.08
	12H	28.54	29.01	29.06	29.51	30.08	28.54	29.01	29.06	29.51	30.08
12H	4H	28.39	29.03	28.87	29.52	29.99	28.39	29.03	28.87	29.52	29.99
	6H	28.50	29.04	29.02	29.55	30.04	28.50	29.04	29.02	29.55	30.04
	8H	28.54	29.01	29.05	29.50	30.07	28.54	29.01	29.05	29.50	30.07