

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: P926836

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

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926836
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-LOW-3500K
Description: UHBS2 LED High Bay at 3500K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

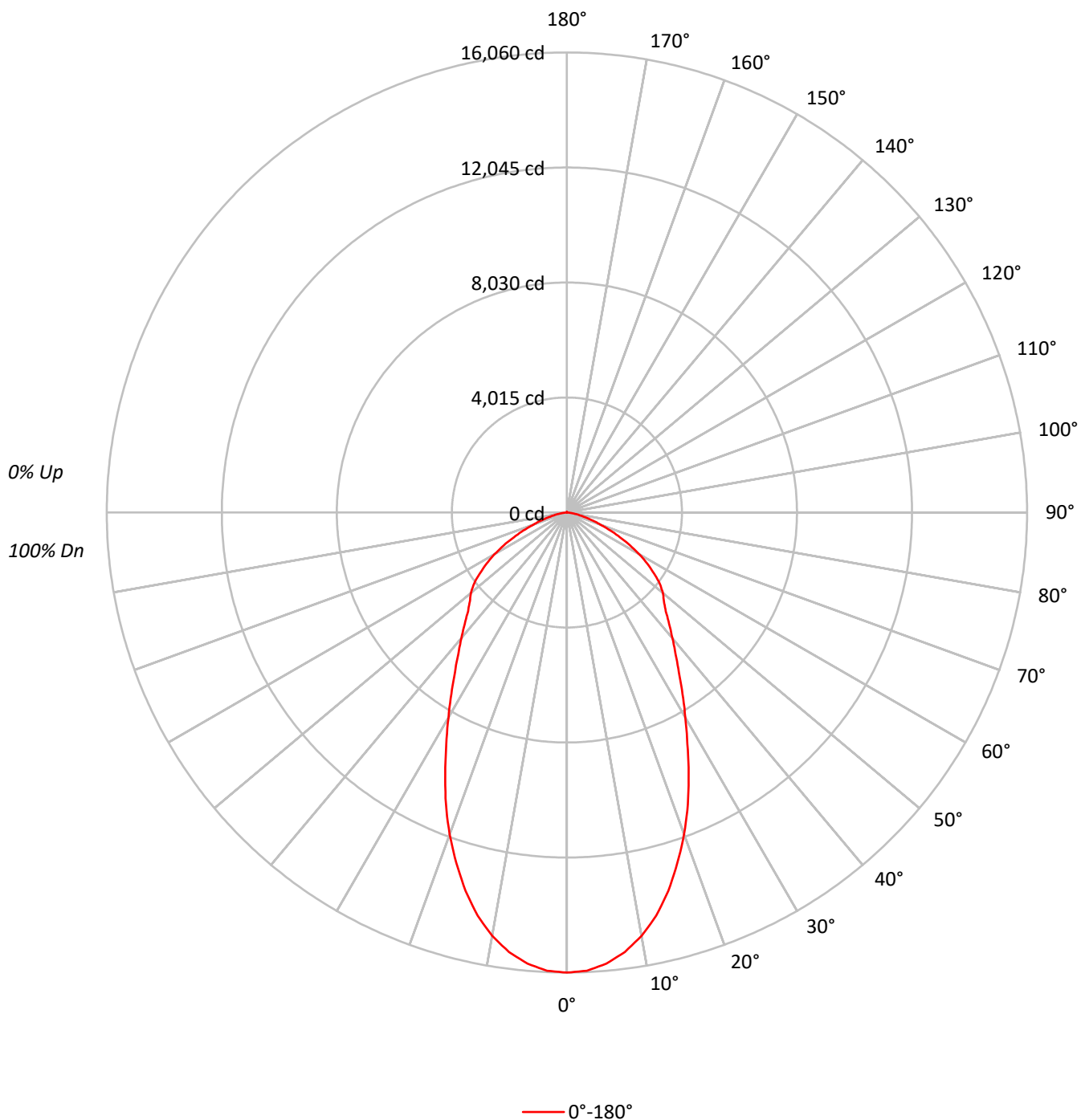
Lumens per Lamp: N/A
Luminaire Lumens: 24289.1 lumens
Efficiency: N/A
Efficacy: 157.3 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 154.4
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 5.2
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P926836

CATALOG NUMBER: UHBS2-2436-N-L83065-LOW-3500K

Luminous Intensity Polar Plot



TEST NUMBER: P926836

CATALOG NUMBER: UHBS2-2436-N-L83065-LOW-3500K

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°	159422
5°	156029
10°	148425
15°	136541
20°	121560
25°	104721
30°	89174
35°	76690
40°	68009
45°	61807
50°	59818
55°	55609
60°	48804
65°	38967
70°	28348
75°	18863
80°	11185
85°	5190

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 61807 cd/sqm

TEST NUMBER: P926836

CATALOG NUMBER: UHBS2-2436-N-L83065-LOW-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1483.4	6.1
10°-20°	3810.1	15.7
20°-30°	4612.7	19.0
30°-40°	4293.6	17.7
40°-50°	3818.5	15.7
50°-60°	3300.5	13.6
60°-70°	2039.8	8.4
70°-80°	769.3	3.2
80°-90°	136.9	0.6
90°-100°	3.5	0.0
100°-110°	2.1	0.0
110°-120°	2.0	0.0
120°-130°	2.4	0.0
130°-140°	3.0	0.0
140°-150°	3.2	0.0
150°-160°	3.8	0.0
160°-170°	3.1	0.0
170°-180°	1.3	0.0
0°-30°	9906.2	40.8
0°-40°	14199.8	58.5
0°-60°	21318.7	87.8
0°-90°	24264.7	99.9
90°-120°	7.6	0.0
90°-150°	16.3	0.1
90°-180°	24.0	0.1
0°-180°	24289.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16060	
5°	15807	###
15°	13672	3810
25°	10044	4613
35°	6809	4294
45°	4880	3818
55°	3710	3300
65°	2044	2040
75°	691	769
85°	102	129
90°	12	9
95°	2	2
105°	2	2
115°	2	2
125°	2	2
135°	4	3
145°	6	3
155°	8	4
165°	12	3
175°	14	1
180°	16	

TEST NUMBER: P926836

CATALOG NUMBER: UHBS2-2436-N-L83065-LOW-3500K

CANDELA DISTRIBUTION (FULL):

0°	
0°	16059.9
2.5°	16012.9
5°	15806.8
7.5°	15473.3
10°	15006.3
12.5°	14409.8
15°	13672.0
17.5°	12828.3
20°	11961.1
22.5°	11031.0
25°	10044.1
27.5°	9112.1
30°	8266.4
32.5°	7503.1
35°	6808.6
37.5°	6229.7
40°	5725.5
42.5°	5278.1
45°	4879.8
47.5°	4589.4
50°	4373.6
52.5°	4089.1
55°	3710.4
57.5°	3325.8
60°	2919.6
62.5°	2484.0
65°	2044.5
67.5°	1640.3
70°	1267.5
72.5°	957.5
75°	690.7
77.5°	482.7
80°	315.9
82.5°	194.2
85°	102.0
87.5°	43.2
90°	11.8
92.5°	2.0
95°	2.0
97.5°	2.0
100°	2.0
102.5°	2.0
105°	2.0
107.5°	2.0
110°	2.0



TEST NUMBER: P926836

CATALOG NUMBER: UHBS2-2436-N-L83065-LOW-3500K

CANDELA DISTRIBUTION (continued):

	0°
112.5°	2.0
115°	2.0
117.5°	2.0
120°	2.0
122.5°	2.0
125°	2.0
127.5°	3.9
130°	3.9
132.5°	3.9
135°	3.9
137.5°	3.9
140°	3.9
142.5°	3.9
145°	5.9
147.5°	5.9
150°	5.9
152.5°	7.8
155°	7.8
157.5°	9.8
160°	9.8
162.5°	9.8
165°	11.8
167.5°	11.8
170°	11.8
172.5°	13.7
175°	13.7
177.5°	13.7
180°	15.7

TEST NUMBER: P926836

CATALOG NUMBER: UHBS2-2436-N-L83065-LOW-3500K

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	25.35	26.81	25.72	27.12	27.44	25.35	26.81	25.72	27.12	27.44
	3H	26.27	27.57	26.65	27.90	28.27	26.27	27.57	26.65	27.90	28.27
	4H	26.46	27.68	26.86	28.03	28.41	26.46	27.68	26.86	28.03	28.41
	6H	26.52	27.64	26.93	28.01	28.40	26.52	27.64	26.93	28.01	28.40
	8H	26.51	27.58	26.94	27.97	28.37	26.51	27.58	26.94	27.97	28.37
	12H	26.49	27.51	26.92	27.89	28.32	26.49	27.51	26.92	27.89	28.32
4H	2H	25.70	26.91	26.10	27.27	27.65	25.70	26.91	26.10	27.27	27.65
	3H	26.74	27.75	27.16	28.15	28.56	26.74	27.75	27.16	28.15	28.56
	4H	26.99	27.89	27.42	28.30	28.75	26.99	27.89	27.42	28.30	28.75
	6H	27.09	27.87	27.55	28.32	28.78	27.09	27.87	27.55	28.32	28.78
	8H	27.09	27.81	27.55	28.26	28.73	27.09	27.81	27.55	28.26	28.73
	12H	27.07	27.72	27.56	28.20	28.67	27.07	27.72	27.56	28.20	28.67
8H	4H	27.02	27.75	27.49	28.19	28.67	27.02	27.75	27.49	28.19	28.67
	6H	27.15	27.74	27.65	28.24	28.72	27.15	27.74	27.65	28.24	28.72
	8H	27.15	27.69	27.67	28.20	28.69	27.15	27.69	27.67	28.20	28.69
	12H	27.15	27.62	27.67	28.12	28.69	27.15	27.62	27.67	28.12	28.69
12H	4H	27.00	27.64	27.48	28.12	28.60	27.00	27.64	27.48	28.12	28.60
	6H	27.11	27.65	27.63	28.16	28.65	27.11	27.65	27.63	28.16	28.65
	8H	27.15	27.61	27.66	28.11	28.68	27.15	27.61	27.66	28.11	28.68