

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: P926841

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

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926841
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-MID-3500K
Description: UHBS2 LED High Bay at 3500K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

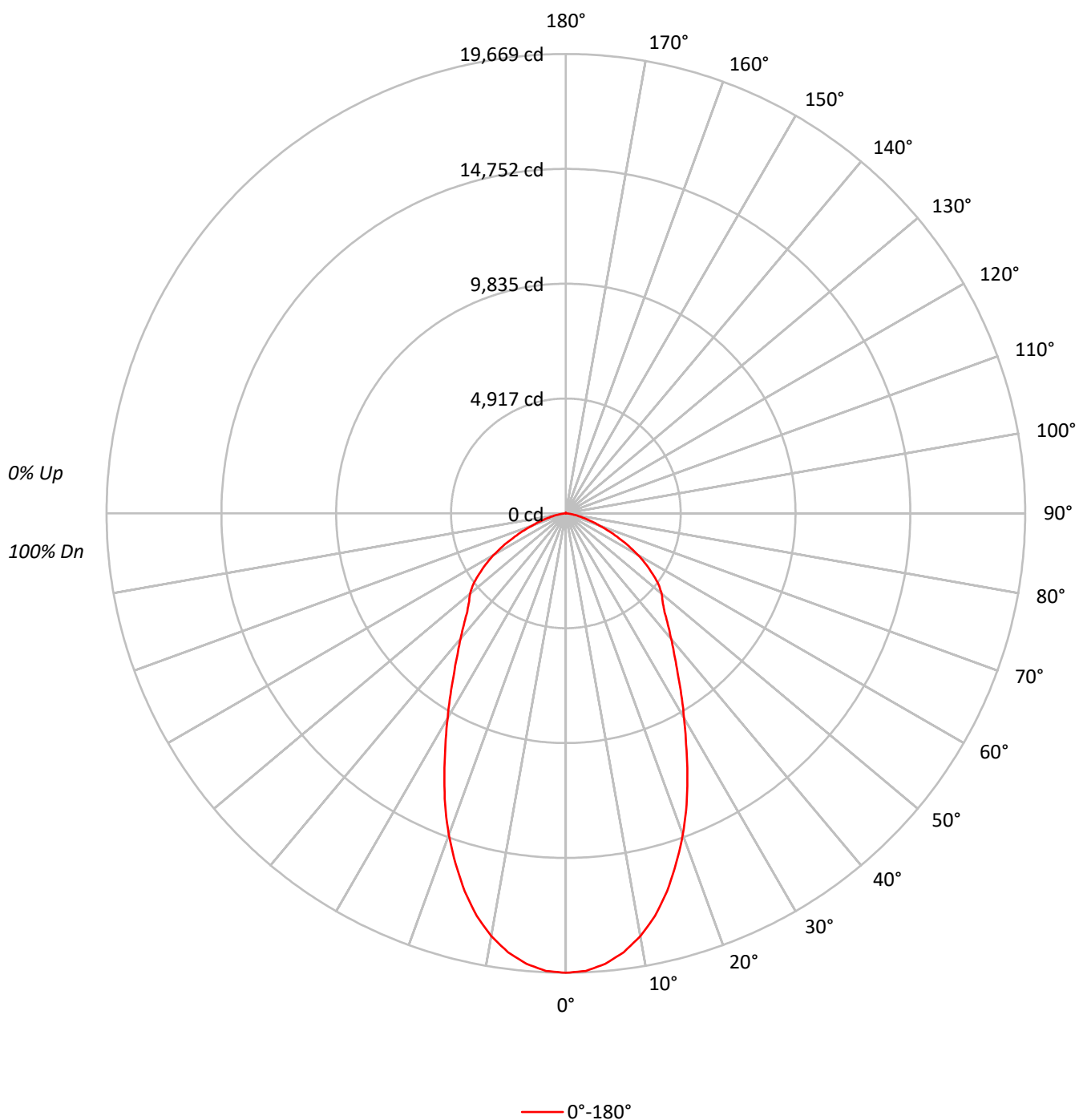
Lumens per Lamp: N/A
Luminaire Lumens: 29747.0 lumens
Efficiency: N/A
Efficacy: 154.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 192.4
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 5.15
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P926841

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

Luminous Intensity Polar Plot



TEST NUMBER: P926841

CATALOG NUMBER: UHBS2-2436-N-L83065-MID-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°	195246
5°	191091
10°	181778
15°	167224
20°	148876
25°	128252
30°	109212
35°	93922
40°	83291
45°	75696
50°	73259
55°	68104
60°	59771
65°	47725
70°	34720
75°	23101
80°	13699
85°	6360

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 75696 cd/sqm

TEST NUMBER: P926841

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1816.8	6.1
10°-20°	4666.3	15.7
20°-30°	5649.2	19.0
30°-40°	5258.4	17.7
40°-50°	4676.5	15.7
50°-60°	4042.1	13.6
60°-70°	2498.2	8.4
70°-80°	942.1	3.2
80°-90°	167.6	0.6
90°-100°	4.3	0.0
100°-110°	2.5	0.0
110°-120°	2.4	0.0
120°-130°	2.9	0.0
130°-140°	3.7	0.0
140°-150°	3.9	0.0
150°-160°	4.7	0.0
160°-170°	3.8	0.0
170°-180°	1.6	0.0
0°-30°	12132.2	40.8
0°-40°	17390.6	58.5
0°-60°	26109.2	87.8
0°-90°	29717.2	99.9
90°-120°	9.2	0.0
90°-150°	19.7	0.1
90°-180°	30.0	0.1
0°-180°	29747.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	19669	
5°	19359	###
15°	16744	4666
25°	12301	5649
35°	8338	5258
45°	5976	4677
55°	4544	4042
65°	2504	2498
75°	846	942
85°	125	158
90°	14	12
95°	2	2
105°	2	3
115°	2	2
125°	2	3
135°	5	4
145°	7	4
155°	10	5
165°	14	4
175°	17	2
180°	19	

TEST NUMBER: P926841

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

CANDELA DISTRIBUTION (FULL):

0°	
0°	19668.8
2.5°	19611.1
5°	19358.8
7.5°	18950.3
10°	18378.4
12.5°	17647.8
15°	16744.3
17.5°	15711.0
20°	14648.9
22.5°	13509.8
25°	12301.1
27.5°	11159.7
30°	10124.0
32.5°	9189.2
35°	8338.5
37.5°	7629.6
40°	7012.0
42.5°	6464.1
45°	5976.3
47.5°	5620.7
50°	5356.4
52.5°	5007.9
55°	4544.1
57.5°	4073.1
60°	3575.7
62.5°	3042.2
65°	2504.0
67.5°	2008.9
70°	1552.4
72.5°	1172.7
75°	845.9
77.5°	591.1
80°	386.9
82.5°	237.9
85°	125.0
87.5°	52.9
90°	14.4
92.5°	2.4
95°	2.4
97.5°	2.4
100°	2.4
102.5°	2.4
105°	2.4
107.5°	2.4
110°	2.4

TEST NUMBER: P926841

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

CANDELA DISTRIBUTION (continued):

	0°
112.5°	2.4
115°	2.4
117.5°	2.4
120°	2.4
122.5°	2.4
125°	2.4
127.5°	4.8
130°	4.8
132.5°	4.8
135°	4.8
137.5°	4.8
140°	4.8
142.5°	4.8
145°	7.2
147.5°	7.2
150°	7.2
152.5°	9.6
155°	9.6
157.5°	12.0
160°	12.0
162.5°	12.0
165°	14.4
167.5°	14.4
170°	14.4
172.5°	16.8
175°	16.8
177.5°	16.8
180°	19.2

TEST NUMBER: P926841

CATALOG NUMBER: UHBS2-2436-N-L83065-MID-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	26.05	27.51	26.42	27.83	28.14	26.05	27.51	26.42	27.83	28.14
	3H	26.97	28.28	27.35	28.61	28.97	26.97	28.28	27.35	28.61	28.97
	4H	27.16	28.38	27.57	28.73	29.12	27.16	28.38	27.57	28.73	29.12
	6H	27.22	28.34	27.64	28.71	29.11	27.22	28.34	27.64	28.71	29.11
	8H	27.21	28.28	27.64	28.67	29.08	27.21	28.28	27.64	28.67	29.08
	12H	27.19	28.21	27.62	28.60	29.03	27.19	28.21	27.62	28.60	29.03
4H	2H	26.40	27.62	26.80	27.97	28.35	26.40	27.62	26.80	27.97	28.35
	3H	27.45	28.45	27.86	28.86	29.26	27.45	28.45	27.86	28.86	29.26
	4H	27.69	28.59	28.12	29.01	29.45	27.69	28.59	28.12	29.01	29.45
	6H	27.79	28.57	28.26	29.02	29.48	27.79	28.57	28.26	29.02	29.48
	8H	27.79	28.52	28.26	28.96	29.43	27.79	28.52	28.26	28.96	29.43
	12H	27.78	28.42	28.26	28.90	29.38	27.78	28.42	28.26	28.90	29.38
8H	4H	27.73	28.45	28.19	28.90	29.37	27.73	28.45	28.19	28.90	29.37
	6H	27.85	28.45	28.35	28.94	29.42	27.85	28.45	28.35	28.94	29.42
	8H	27.86	28.39	28.38	28.90	29.40	27.86	28.39	28.38	28.90	29.40
	12H	27.86	28.32	28.37	28.82	29.39	27.86	28.32	28.37	28.82	29.39
12H	4H	27.70	28.35	28.19	28.83	29.30	27.70	28.35	28.19	28.83	29.30
	6H	27.82	28.35	28.34	28.86	29.36	27.82	28.35	28.34	28.86	29.36
	8H	27.85	28.32	28.36	28.81	29.38	27.85	28.32	28.36	28.81	29.38