

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: P926832

Luminaire Tested: UHBS2-2436-N-L83065-HIGH-4000K

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926832
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-4000K
Description: UHBS2 LED High Bay at 4000K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

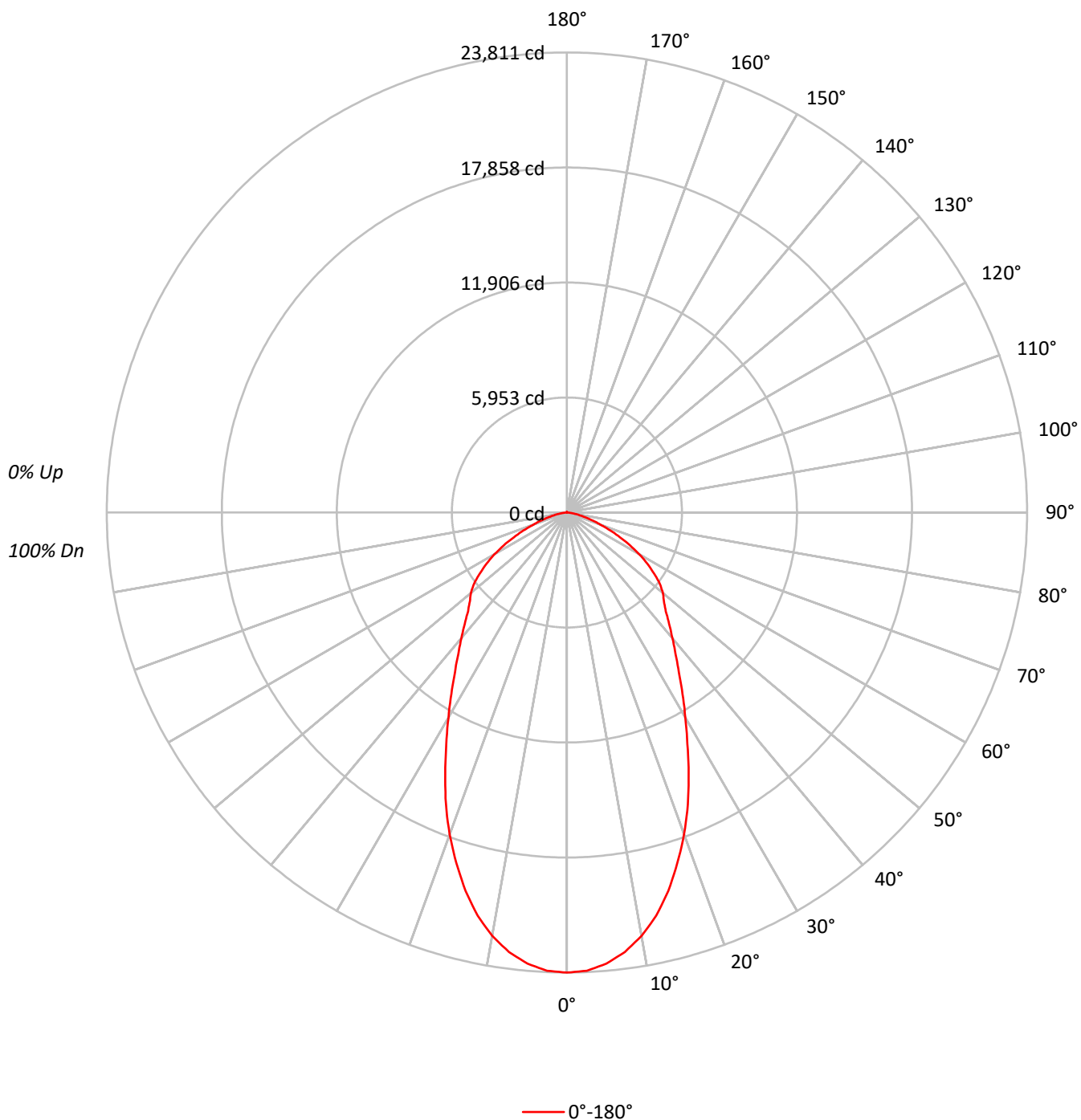
Lumens per Lamp: N/A
Luminaire Lumens: 36011.0 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 232.1
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°	236361
5°	231331
10°	220055
15°	202437
20°	180226
25°	155259
30°	132209
35°	113700
40°	100830
45°	91636
50°	88686
55°	82445
60°	72359
65°	57773
70°	42029
75°	27965
80°	16584
85°	7698

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 91636 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2199.4	6.1
10°-20°	5648.9	15.7
20°-30°	6838.7	19.0
30°-40°	6365.7	17.7
40°-50°	5661.3	15.7
50°-60°	4893.3	13.6
60°-70°	3024.3	8.4
70°-80°	1140.5	3.2
80°-90°	202.9	0.6
90°-100°	5.2	0.0
100°-110°	3.1	0.0
110°-120°	2.9	0.0
120°-130°	3.5	0.0
130°-140°	4.5	0.0
140°-150°	4.7	0.0
150°-160°	5.6	0.0
160°-170°	4.6	0.0
170°-180°	1.9	0.0
0°-30°	14687.0	40.8
0°-40°	21052.7	58.5
0°-60°	31607.3	87.8
0°-90°	35975.0	99.9
90°-120°	11.1	0.0
90°-150°	23.9	0.1
90°-180°	36.0	0.1
0°-180°	36011.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	23811	
5°	23435	###
15°	20270	5649
25°	14891	6839
35°	10094	6366
45°	7235	5661
55°	5501	4893
65°	3031	3024
75°	1024	1140
85°	151	192
90°	18	14
95°	3	2
105°	3	3
115°	3	3
125°	3	4
135°	6	4
145°	9	5
155°	12	6
165°	18	5
175°	20	2
180°	23	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	23810.6
2.5°	23740.7
5°	23435.3
7.5°	22940.8
10°	22248.4
12.5°	21364.1
15°	20270.3
17.5°	19019.4
20°	17733.6
22.5°	16354.7
25°	14891.4
27.5°	13509.6
30°	12255.8
32.5°	11124.2
35°	10094.4
37.5°	9236.2
40°	8488.6
42.5°	7825.3
45°	7234.8
47.5°	6804.3
50°	6484.3
52.5°	6062.5
55°	5501.0
57.5°	4930.8
60°	4328.7
62.5°	3682.9
65°	3031.2
67.5°	2432.0
70°	1879.2
72.5°	1419.6
75°	1024.0
77.5°	715.6
80°	468.4
82.5°	288.0
85°	151.3
87.5°	64.0
90°	17.5
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°	5.8
130°	5.8
132.5°	5.8
135°	5.8
137.5°	5.8
140°	5.8
142.5°	5.8
145°	8.7
147.5°	8.7
150°	8.7
152.5°	11.6
155°	11.6
157.5°	14.5
160°	14.5
162.5°	14.5
165°	17.5
167.5°	17.5
170°	17.5
172.5°	20.4
175°	20.4
177.5°	20.4
180°	23.3

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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	26.72	28.17	27.08	28.49	28.81	26.72	28.17	27.08	28.49	28.81
	3H	27.64	28.94	28.02	29.27	29.64	27.64	28.94	28.02	29.27	29.64
	4H	27.83	29.05	28.23	29.40	29.78	27.83	29.05	28.23	29.40	29.78
	6H	27.89	29.01	28.30	29.38	29.77	27.89	29.01	28.30	29.38	29.77
	8H	27.88	28.94	28.31	29.34	29.74	27.88	28.94	28.31	29.34	29.74
	12H	27.86	28.88	28.29	29.26	29.69	27.86	28.88	28.29	29.26	29.69
4H	2H	27.07	28.28	27.47	28.63	29.02	27.07	28.28	27.47	28.63	29.02
	3H	28.11	29.12	28.53	29.52	29.92	28.11	29.12	28.53	29.52	29.92
	4H	28.35	29.25	28.79	29.67	30.12	28.35	29.25	28.79	29.67	30.12
	6H	28.46	29.24	28.92	29.68	30.15	28.46	29.24	28.92	29.68	30.15
	8H	28.45	29.18	28.92	29.63	30.10	28.45	29.18	28.92	29.63	30.10
	12H	28.44	29.08	28.92	29.57	30.04	28.44	29.08	28.92	29.57	30.04
8H	4H	28.39	29.12	28.86	29.56	30.03	28.39	29.12	28.86	29.56	30.03
	6H	28.51	29.11	29.02	29.61	30.09	28.51	29.11	29.02	29.61	30.09
	8H	28.52	29.05	29.04	29.57	30.06	28.52	29.05	29.04	29.57	30.06
	12H	28.52	28.99	29.03	29.48	30.05	28.52	28.99	29.03	29.48	30.05
12H	4H	28.36	29.01	28.85	29.49	29.97	28.36	29.01	28.85	29.49	29.97
	6H	28.48	29.01	29.00	29.53	30.02	28.48	29.01	29.00	29.53	30.02
	8H	28.51	28.98	29.03	29.48	30.05	28.51	28.98	29.03	29.48	30.05