

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: P926834

Luminaire Tested: UHBS2-2436-N-L83065-HIGH-6500K

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926834
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-6500K
Description: UHBS2 LED High Bay at 6500K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

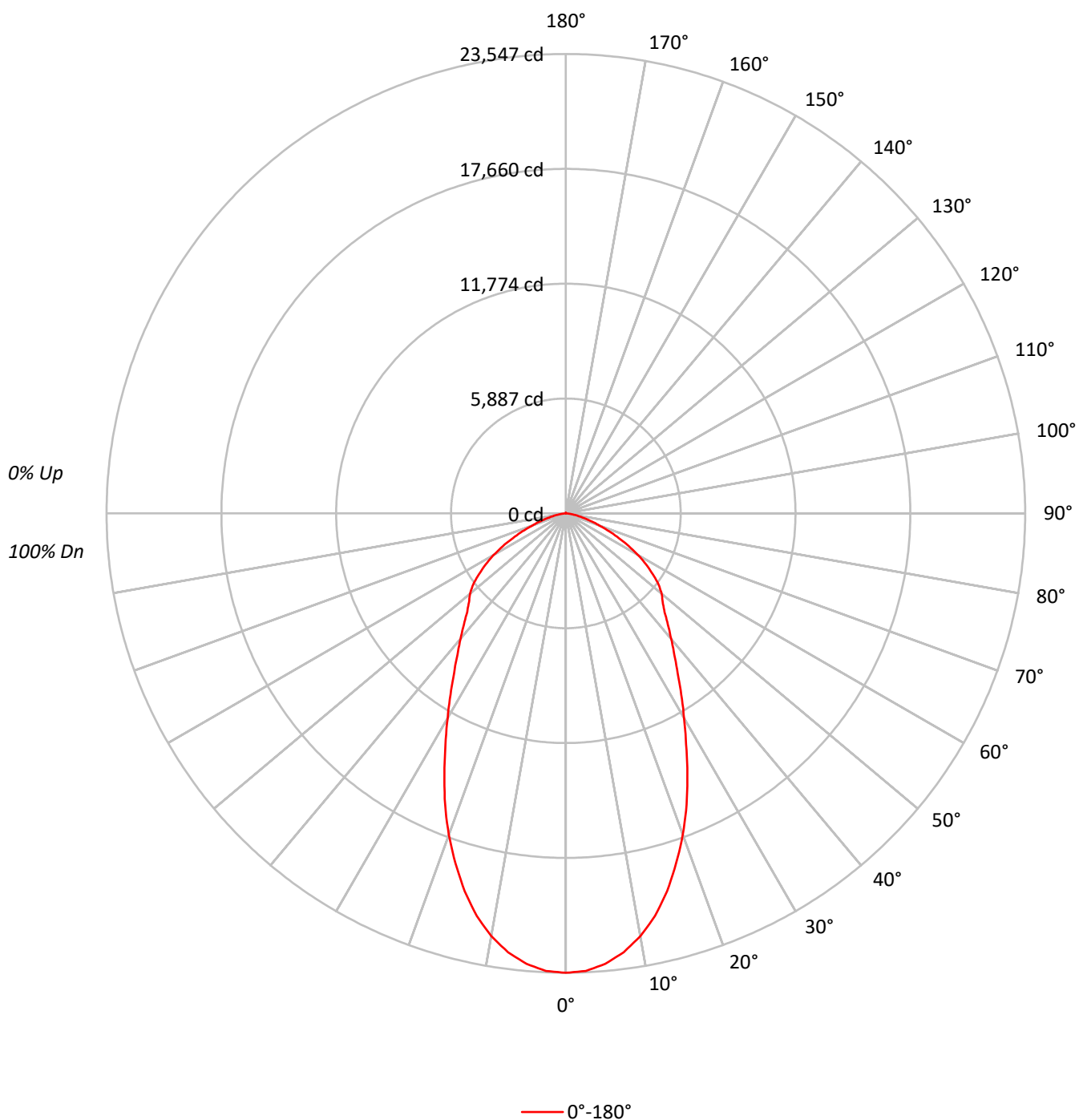
Lumens per Lamp: N/A
Luminaire Lumens: 35612.1 lumens
Efficiency: N/A
Efficacy: 148.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 239.1
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	103	100	108	105	101	98	100	98	95	96	94	92	93	91	90	88		
2	102	95	89	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76		
3	94	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67		
4	88	77	69	63	85	76	69	63	73	67	62	71	66	61	69	64	61	59		
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52		
6	76	64	56	50	74	63	55	50	61	55	50	60	54	49	58	53	49	47		
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42		
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39		
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36		
10	59	47	40	35	58	46	39	35	46	39	35	45	39	35	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	233741
5°	228767
10°	217617
15°	200194
20°	178228
25°	153538
30°	130744
35°	112440
40°	99714
45°	90620
50°	87702
55°	81532
60°	71556
65°	57133
70°	41563
75°	27654
80°	16400
85°	7611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 90620 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2175.0	6.1
10°-20°	5586.3	15.7
20°-30°	6763.0	19.0
30°-40°	6295.2	17.7
40°-50°	5598.5	15.7
50°-60°	4839.1	13.6
60°-70°	2990.8	8.4
70°-80°	1127.9	3.2
80°-90°	200.7	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°	4.5	0.0
140°-150°	4.7	0.0
150°-160°	5.6	0.0
160°-170°	4.5	0.0
170°-180°	1.9	0.0
0°-30°	14524.2	40.8
0°-40°	20819.4	58.5
0°-60°	31257.0	87.8
0°-90°	35576.3	99.9
90°-120°	11.1	0.0
90°-150°	23.8	0.1
90°-180°	36.0	0.1
0°-180°	35612.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	23547	
5°	23176	###
15°	20046	5586
25°	14726	6763
35°	9983	6295
45°	7155	5599
55°	5440	4839
65°	2998	2991
75°	1013	1128
85°	150	190
90°	17	14
95°	3	2
105°	3	3
115°	3	3
125°	3	4
135°	6	4
145°	9	5
155°	12	6
165°	17	5
175°	20	2
180°	23	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	23546.7
2.5°	23477.7
5°	23175.6
7.5°	22686.6
10°	22001.9
12.5°	21127.3
15°	20045.7
17.5°	18808.6
20°	17537.1
22.5°	16173.5
25°	14726.4
27.5°	13359.9
30°	12120.0
32.5°	11000.9
35°	9982.6
37.5°	9133.9
40°	8394.6
42.5°	7738.6
45°	7154.6
47.5°	6728.9
50°	6412.4
52.5°	5995.3
55°	5440.1
57.5°	4876.2
60°	4280.7
62.5°	3642.1
65°	2997.6
67.5°	2405.0
70°	1858.4
72.5°	1403.9
75°	1012.6
77.5°	707.7
80°	463.2
82.5°	284.8
85°	149.6
87.5°	63.3
90°	17.3
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°	8.6
147.5°	8.6
150°	8.6
152.5°	11.5
155°	11.5
157.5°	14.4
160°	14.4
162.5°	14.4
165°	17.3
167.5°	17.3
170°	17.3
172.5°	20.1
175°	20.1
177.5°	20.1
180°	23.0

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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	26.68	28.14	27.05	28.45	28.77	26.68	28.14	27.05	28.45	28.77
	3H	27.60	28.90	27.98	29.23	29.60	27.60	28.90	27.98	29.23	29.60
	4H	27.79	29.01	28.19	29.36	29.74	27.79	29.01	28.19	29.36	29.74
	6H	27.85	28.97	28.26	29.34	29.73	27.85	28.97	28.26	29.34	29.73
	8H	27.84	28.90	28.27	29.30	29.70	27.84	28.90	28.27	29.30	29.70
	12H	27.82	28.84	28.25	29.22	29.65	27.82	28.84	28.25	29.22	29.65
4H	2H	27.03	28.24	27.43	28.60	28.98	27.03	28.24	27.43	28.60	28.98
	3H	28.07	29.08	28.49	29.48	29.89	28.07	29.08	28.49	29.48	29.89
	4H	28.31	29.21	28.75	29.63	30.08	28.31	29.21	28.75	29.63	30.08
	6H	28.42	29.20	28.88	29.64	30.11	28.42	29.20	28.88	29.64	30.11
	8H	28.41	29.14	28.88	29.59	30.06	28.41	29.14	28.88	29.59	30.06
	12H	28.40	29.05	28.89	29.53	30.00	28.40	29.05	28.89	29.53	30.00
8H	4H	28.35	29.08	28.82	29.52	30.00	28.35	29.08	28.82	29.52	30.00
	6H	28.48	29.07	28.98	29.57	30.05	28.48	29.07	28.98	29.57	30.05
	8H	28.48	29.01	29.00	29.53	30.02	28.48	29.01	29.00	29.53	30.02
	12H	28.48	28.95	28.99	29.45	30.01	28.48	28.95	28.99	29.45	30.01
12H	4H	28.33	28.97	28.81	29.45	29.93	28.33	28.97	28.81	29.45	29.93
	6H	28.44	28.98	28.96	29.49	29.98	28.44	28.98	28.96	29.49	29.98
	8H	28.47	28.94	28.99	29.44	30.01	28.47	28.94	28.99	29.44	30.01