

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: P926835

Luminaire Tested: UHBS2-2436-N-L83065-LOW-3000K

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926835
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-3000K
Description: UHBS2 LED High Bay at 3000K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

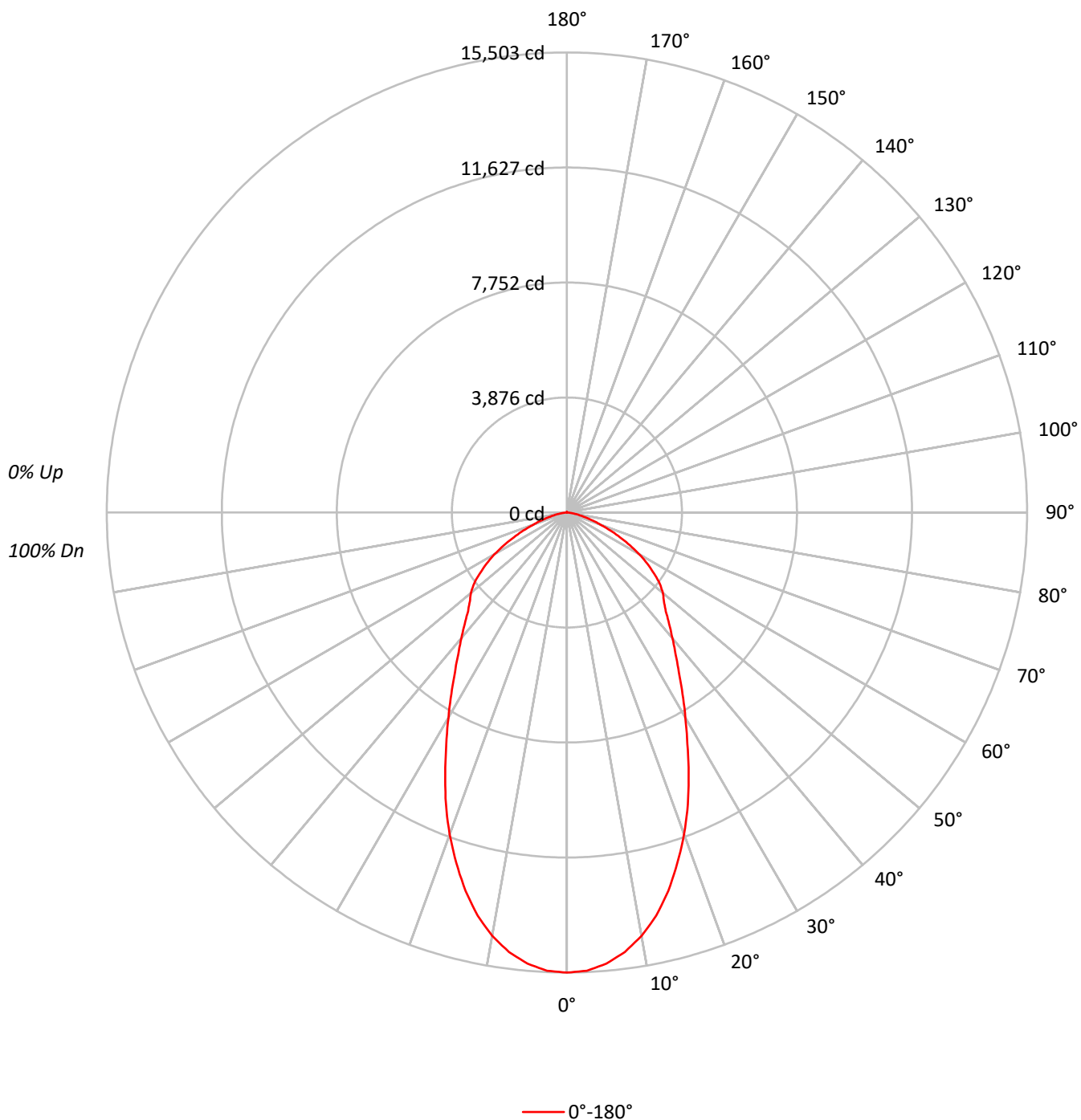
Lumens per Lamp: N/A
Luminaire Lumens: 23447.1 lumens
Efficiency: N/A
Efficacy: 150.3 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 156
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

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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°	153896
5°	150621
10°	143280
15°	131808
20°	117345
25°	101090
30°	86082
35°	74030
40°	65652
45°	59664
50°	57744
55°	53680
60°	47112
65°	37618
70°	27366
75°	18207
80°	10799
85°	5012

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 59664 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1432.0	6.1
10°-20°	3678.0	15.7
20°-30°	4452.7	19.0
30°-40°	4144.7	17.7
40°-50°	3686.1	15.7
50°-60°	3186.1	13.6
60°-70°	1969.1	8.4
70°-80°	742.6	3.2
80°-90°	132.1	0.6
90°-100°	3.4	0.0
100°-110°	2.0	0.0
110°-120°	1.9	0.0
120°-130°	2.3	0.0
130°-140°	2.9	0.0
140°-150°	3.1	0.0
150°-160°	3.7	0.0
160°-170°	3.0	0.0
170°-180°	1.2	0.0
0°-30°	9562.8	40.8
0°-40°	13707.5	58.5
0°-60°	20579.7	87.8
0°-90°	23423.5	99.9
90°-120°	7.3	0.0
90°-150°	15.6	0.1
90°-180°	24.0	0.1
0°-180°	23447.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15503	
5°	15259	###
15°	13198	3678
25°	9696	4453
35°	6572	4145
45°	4711	3686
55°	3582	3186
65°	1974	1969
75°	667	743
85°	98	125
90°	11	9
95°	2	2
105°	2	2
115°	2	2
125°	2	2
135°	4	3
145°	6	3
155°	8	4
165°	11	3
175°	13	1
180°	15	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	15503.2
2.5°	15457.8
5°	15258.9
7.5°	14936.9
10°	14486.1
12.5°	13910.3
15°	13198.1
17.5°	12383.6
20°	11546.4
22.5°	10648.6
25°	9695.9
27.5°	8796.2
30°	7979.8
32.5°	7243.0
35°	6572.5
37.5°	6013.8
40°	5527.0
42.5°	5095.1
45°	4710.6
47.5°	4430.3
50°	4222.0
52.5°	3947.3
55°	3581.7
57.5°	3210.5
60°	2818.4
62.5°	2397.9
65°	1973.7
67.5°	1583.5
70°	1223.6
72.5°	924.3
75°	666.7
77.5°	465.9
80°	305.0
82.5°	187.5
85°	98.5
87.5°	41.7
90°	11.4
92.5°	1.9
95°	1.9
97.5°	1.9
100°	1.9
102.5°	1.9
105°	1.9
107.5°	1.9
110°	1.9



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.9
115°	1.9
117.5°	1.9
120°	1.9
122.5°	1.9
125°	1.9
127.5°	3.8
130°	3.8
132.5°	3.8
135°	3.8
137.5°	3.8
140°	3.8
142.5°	3.8
145°	5.7
147.5°	5.7
150°	5.7
152.5°	7.6
155°	7.6
157.5°	9.5
160°	9.5
162.5°	9.5
165°	11.4
167.5°	11.4
170°	11.4
172.5°	13.3
175°	13.3
177.5°	13.3
180°	15.2

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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	25.23	26.68	25.59	27.00	27.32	25.23	26.68	25.59	27.00	27.32
	3H	26.15	27.45	26.53	27.78	28.14	26.15	27.45	26.53	27.78	28.14
	4H	26.34	27.55	26.74	27.91	28.29	26.34	27.55	26.74	27.91	28.29
	6H	26.40	27.52	26.81	27.89	28.28	26.40	27.52	26.81	27.89	28.28
	8H	26.39	27.45	26.82	27.84	28.25	26.39	27.45	26.82	27.84	28.25
	12H	26.36	27.38	26.80	27.77	28.20	26.36	27.38	26.80	27.77	28.20
4H	2H	25.57	26.79	25.98	27.14	27.53	25.57	26.79	25.98	27.14	27.53
	3H	26.62	27.63	27.04	28.03	28.43	26.62	27.63	27.04	28.03	28.43
	4H	26.86	27.76	27.30	28.18	28.62	26.86	27.76	27.30	28.18	28.62
	6H	26.97	27.75	27.43	28.19	28.66	26.97	27.75	27.43	28.19	28.66
	8H	26.96	27.69	27.43	28.14	28.61	26.96	27.69	27.43	28.14	28.61
	12H	26.95	27.59	27.43	28.08	28.55	26.95	27.59	27.43	28.08	28.55
8H	4H	26.90	27.63	27.37	28.07	28.54	26.90	27.63	27.37	28.07	28.54
	6H	27.02	27.62	27.52	28.11	28.60	27.02	27.62	27.52	28.11	28.60
	8H	27.03	27.56	27.55	28.08	28.57	27.03	27.56	27.55	28.08	28.57
	12H	27.03	27.50	27.54	27.99	28.56	27.03	27.50	27.54	27.99	28.56
12H	4H	26.87	27.52	27.36	28.00	28.48	26.87	27.52	27.36	28.00	28.48
	6H	26.99	27.52	27.51	28.04	28.53	26.99	27.52	27.51	28.04	28.53
	8H	27.02	27.49	27.54	27.99	28.56	27.02	27.49	27.54	27.99	28.56

END OF REPORT