

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: P926839

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

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926839
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-6500K
Description: UHBS2 LED High Bay at 6500K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

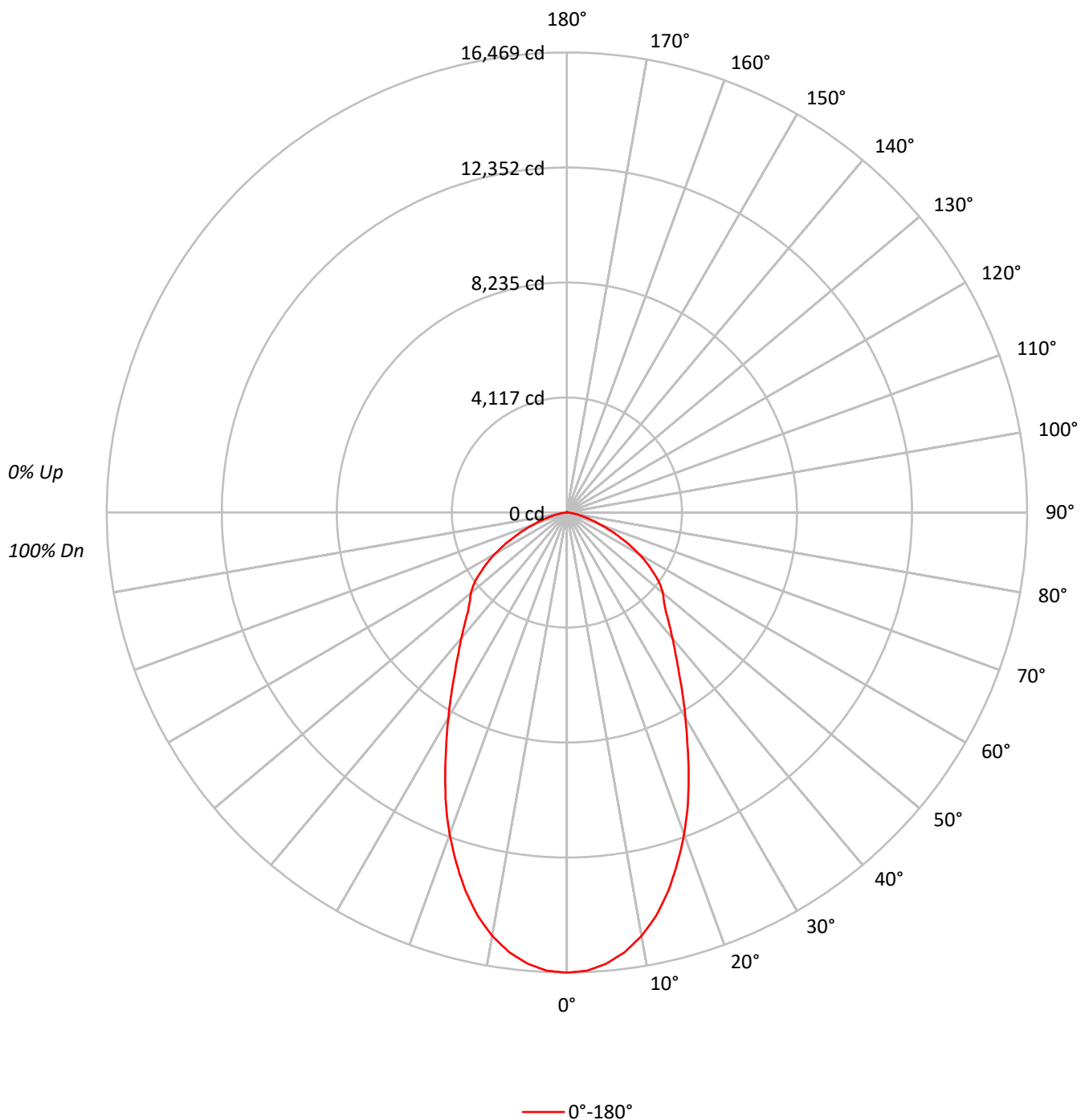
Lumens per Lamp: N/A
Luminaire Lumens: 24907.9 lumens
Efficiency: N/A
Efficacy: 161.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 154.2
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°	163485
5°	160006
10°	152207
15°	140021
20°	124658
25°	107390
30°	91446
35°	78644
40°	69742
45°	63383
50°	61341
55°	57025
60°	50048
65°	39960
70°	29070
75°	19343
80°	11472
85°	5322

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 63383 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1521.3	6.1
10°-20°	3907.2	15.7
20°-30°	4730.2	19.0
30°-40°	4403.0	17.7
40°-50°	3915.8	15.7
50°-60°	3384.6	13.6
60°-70°	2091.8	8.4
70°-80°	788.9	3.2
80°-90°	140.4	0.6
90°-100°	3.6	0.0
100°-110°	2.1	0.0
110°-120°	2.0	0.0
120°-130°	2.4	0.0
130°-140°	3.1	0.0
140°-150°	3.3	0.0
150°-160°	3.9	0.0
160°-170°	3.2	0.0
170°-180°	1.3	0.0
0°-30°	10158.7	40.8
0°-40°	14561.7	58.5
0°-60°	21862.0	87.8
0°-90°	24883.1	99.9
90°-120°	7.7	0.0
90°-150°	16.5	0.1
90°-180°	25.0	0.1
0°-180°	24907.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16469	
5°	16210	###
15°	14020	3907
25°	10300	4730
35°	6982	4403
45°	5004	3916
55°	3805	3385
65°	2097	2092
75°	708	789
85°	105	133
90°	12	10
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	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	16469.2
2.5°	16420.9
5°	16209.7
7.5°	15867.6
10°	15388.7
12.5°	14777.0
15°	14020.5
17.5°	13155.3
20°	12265.9
22.5°	11312.2
25°	10300.1
27.5°	9344.3
30°	8477.1
32.5°	7694.4
35°	6982.1
37.5°	6388.5
40°	5871.4
42.5°	5412.6
45°	5004.2
47.5°	4706.4
50°	4485.0
52.5°	4193.3
55°	3804.9
57.5°	3410.5
60°	2994.0
62.5°	2547.3
65°	2096.6
67.5°	1682.1
70°	1299.8
72.5°	981.9
75°	708.3
77.5°	495.0
80°	324.0
82.5°	199.2
85°	104.6
87.5°	44.3
90°	12.1
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



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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°	4.0
130°	4.0
132.5°	4.0
135°	4.0
137.5°	4.0
140°	4.0
142.5°	4.0
145°	6.0
147.5°	6.0
150°	6.0
152.5°	8.0
155°	8.0
157.5°	10.1
160°	10.1
162.5°	10.1
165°	12.1
167.5°	12.1
170°	12.1
172.5°	14.1
175°	14.1
177.5°	14.1
180°	16.1

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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	25.44	26.89	25.80	27.21	27.53	25.44	26.89	25.80	27.21	27.53
	3H	26.36	27.66	26.74	27.99	28.35	26.36	27.66	26.74	27.99	28.35
	4H	26.55	27.76	26.95	28.12	28.50	26.55	27.76	26.95	28.12	28.50
	6H	26.61	27.73	27.02	28.10	28.49	26.61	27.73	27.02	28.10	28.49
	8H	26.60	27.66	27.03	28.05	28.46	26.60	27.66	27.03	28.05	28.46
	12H	26.57	27.59	27.01	27.98	28.41	26.57	27.59	27.01	27.98	28.41
4H	2H	25.78	27.00	26.19	27.35	27.74	25.78	27.00	26.19	27.35	27.74
	3H	26.83	27.84	27.24	28.24	28.64	26.83	27.84	27.24	28.24	28.64
	4H	27.07	27.97	27.51	28.39	28.83	27.07	27.97	27.51	28.39	28.83
	6H	27.18	27.96	27.64	28.40	28.87	27.18	27.96	27.64	28.40	28.87
	8H	27.17	27.90	27.64	28.35	28.82	27.17	27.90	27.64	28.35	28.82
	12H	27.16	27.80	27.64	28.29	28.76	27.16	27.80	27.64	28.29	28.76
8H	4H	27.11	27.84	27.58	28.28	28.75	27.11	27.84	27.58	28.28	28.75
	6H	27.23	27.83	27.73	28.32	28.81	27.23	27.83	27.73	28.32	28.81
	8H	27.24	27.77	27.76	28.29	28.78	27.24	27.77	27.76	28.29	28.78
	12H	27.24	27.71	27.75	28.20	28.77	27.24	27.71	27.75	28.20	28.77
12H	4H	27.08	27.73	27.57	28.21	28.69	27.08	27.73	27.57	28.21	28.69
	6H	27.20	27.73	27.72	28.25	28.74	27.20	27.73	27.72	28.25	28.74
	8H	27.23	27.70	27.75	28.20	28.77	27.23	27.70	27.75	28.20	28.77