

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: P926838

Luminaire Tested: UHBS2-2436-N-L83065-LOW-5000K

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926838
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-5000K
Description: UHBS2 LED High Bay at 5000K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

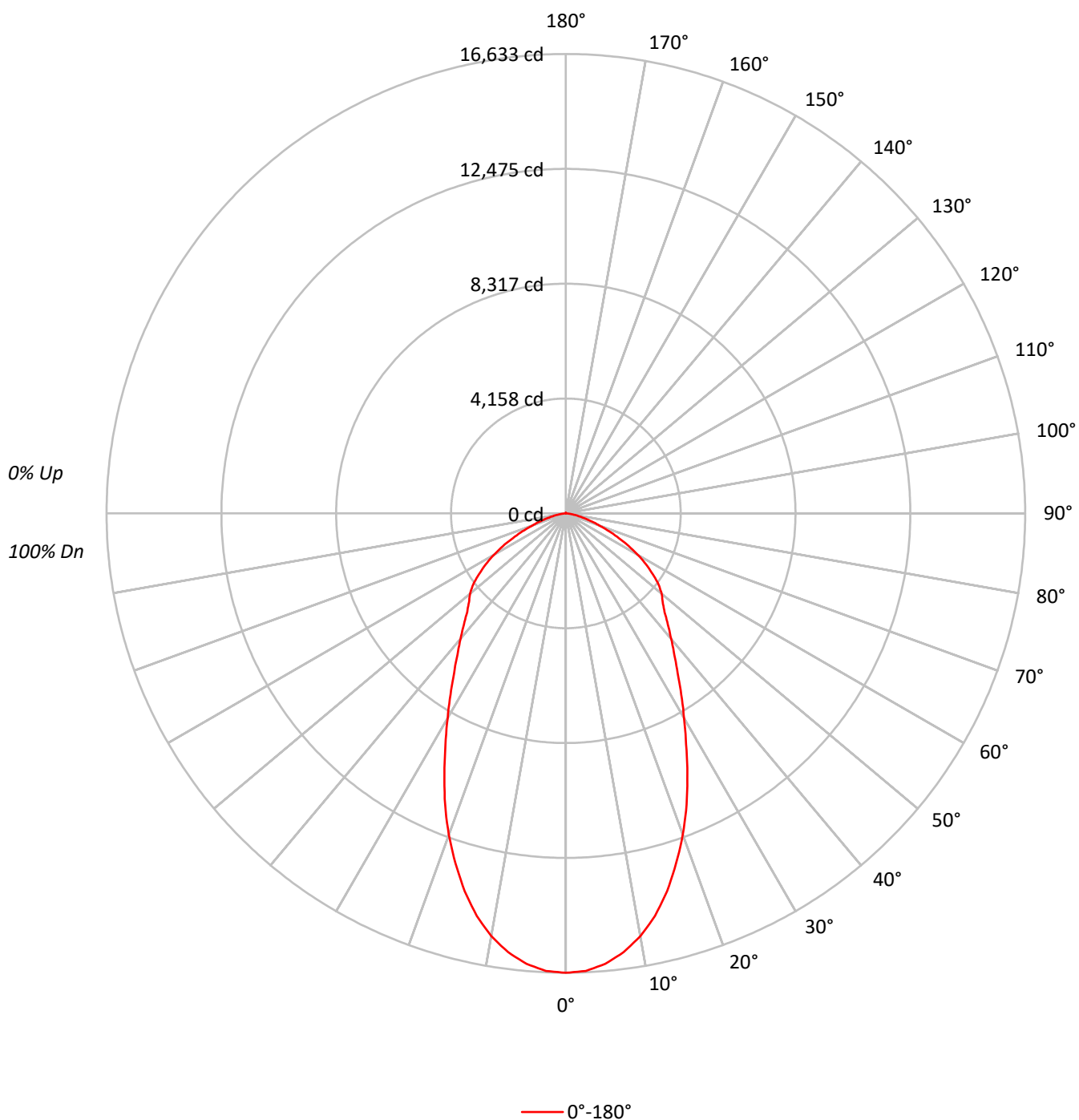
Lumens per Lamp: N/A
Luminaire Lumens: 25154.9 lumens
Efficiency: N/A
Efficacy: 163.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 153.7
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°	165107
5°	161593
10°	153717
15°	141409
20°	125893
25°	108454
30°	92353
35°	79423
40°	70434
45°	64011
50°	61950
55°	57592
60°	50544
65°	40357
70°	29359
75°	19535
80°	11585
85°	5378

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 64011 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1536.3	6.1
10°-20°	3945.9	15.7
20°-30°	4777.1	19.0
30°-40°	4446.7	17.7
40°-50°	3954.6	15.7
50°-60°	3418.2	13.6
60°-70°	2112.5	8.4
70°-80°	796.7	3.2
80°-90°	141.8	0.6
90°-100°	3.6	0.0
100°-110°	2.1	0.0
110°-120°	2.0	0.0
120°-130°	2.5	0.0
130°-140°	3.2	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°	10259.4	40.8
0°-40°	14706.0	58.5
0°-60°	22078.8	87.8
0°-90°	25129.8	99.9
90°-120°	7.7	0.0
90°-150°	16.7	0.1
90°-180°	25.0	0.1
0°-180°	25154.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16633	
5°	16370	###
15°	14160	3946
25°	10402	4777
35°	7051	4447
45°	5054	3955
55°	3843	3418
65°	2117	2113
75°	715	797
85°	106	134
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°	16632.6
2.5°	16583.8
5°	16370.4
7.5°	16025.0
10°	15541.3
12.5°	14923.6
15°	14159.5
17.5°	13285.7
20°	12387.5
22.5°	11424.3
25°	10402.2
27.5°	9437.0
30°	8561.1
32.5°	7770.7
35°	7051.3
37.5°	6451.8
40°	5929.6
42.5°	5466.3
45°	5053.8
47.5°	4753.0
50°	4529.5
52.5°	4234.8
55°	3842.7
57.5°	3444.4
60°	3023.7
62.5°	2572.6
65°	2117.4
67.5°	1698.8
70°	1312.7
72.5°	991.7
75°	715.3
77.5°	499.9
80°	327.2
82.5°	201.2
85°	105.7
87.5°	44.7
90°	12.2
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°	4.1
130°	4.1
132.5°	4.1
135°	4.1
137.5°	4.1
140°	4.1
142.5°	4.1
145°	6.1
147.5°	6.1
150°	6.1
152.5°	8.1
155°	8.1
157.5°	10.2
160°	10.2
162.5°	10.2
165°	12.2
167.5°	12.2
170°	12.2
172.5°	14.2
175°	14.2
177.5°	14.2
180°	16.3

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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	25.47	26.93	25.84	27.24	27.56	25.47	26.93	25.84	27.24	27.56
	3H	26.39	27.69	26.77	28.02	28.39	26.39	27.69	26.77	28.02	28.39
	4H	26.58	27.80	26.98	28.15	28.53	26.58	27.80	26.98	28.15	28.53
	6H	26.64	27.76	27.05	28.13	28.53	26.64	27.76	27.05	28.13	28.53
	8H	26.63	27.70	27.06	28.09	28.49	26.63	27.70	27.06	28.09	28.49
	12H	26.61	27.63	27.04	28.01	28.45	26.61	27.63	27.04	28.01	28.45
4H	2H	25.82	27.04	26.22	27.39	27.77	25.82	27.04	26.22	27.39	27.77
	3H	26.87	27.87	27.28	28.27	28.68	26.87	27.87	27.28	28.27	28.68
	4H	27.11	28.01	27.54	28.43	28.87	27.11	28.01	27.54	28.43	28.87
	6H	27.21	27.99	27.67	28.44	28.90	27.21	27.99	27.67	28.44	28.90
	8H	27.21	27.93	27.67	28.38	28.85	27.21	27.93	27.67	28.38	28.85
	12H	27.19	27.84	27.68	28.32	28.79	27.19	27.84	27.68	28.32	28.79
8H	4H	27.14	27.87	27.61	28.32	28.79	27.14	27.87	27.61	28.32	28.79
	6H	27.27	27.86	27.77	28.36	28.84	27.27	27.86	27.77	28.36	28.84
	8H	27.27	27.81	27.79	28.32	28.81	27.27	27.81	27.79	28.32	28.81
	12H	27.27	27.74	27.79	28.24	28.81	27.27	27.74	27.79	28.24	28.81
12H	4H	27.12	27.76	27.60	28.25	28.72	27.12	27.76	27.60	28.25	28.72
	6H	27.23	27.77	27.75	28.28	28.77	27.23	27.77	27.75	28.28	28.77
	8H	27.27	27.74	27.78	28.23	28.80	27.27	27.74	27.78	28.23	28.80