

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: P926837

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

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926837
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-4000K
Description: UHBS2 LED High Bay at 4000K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

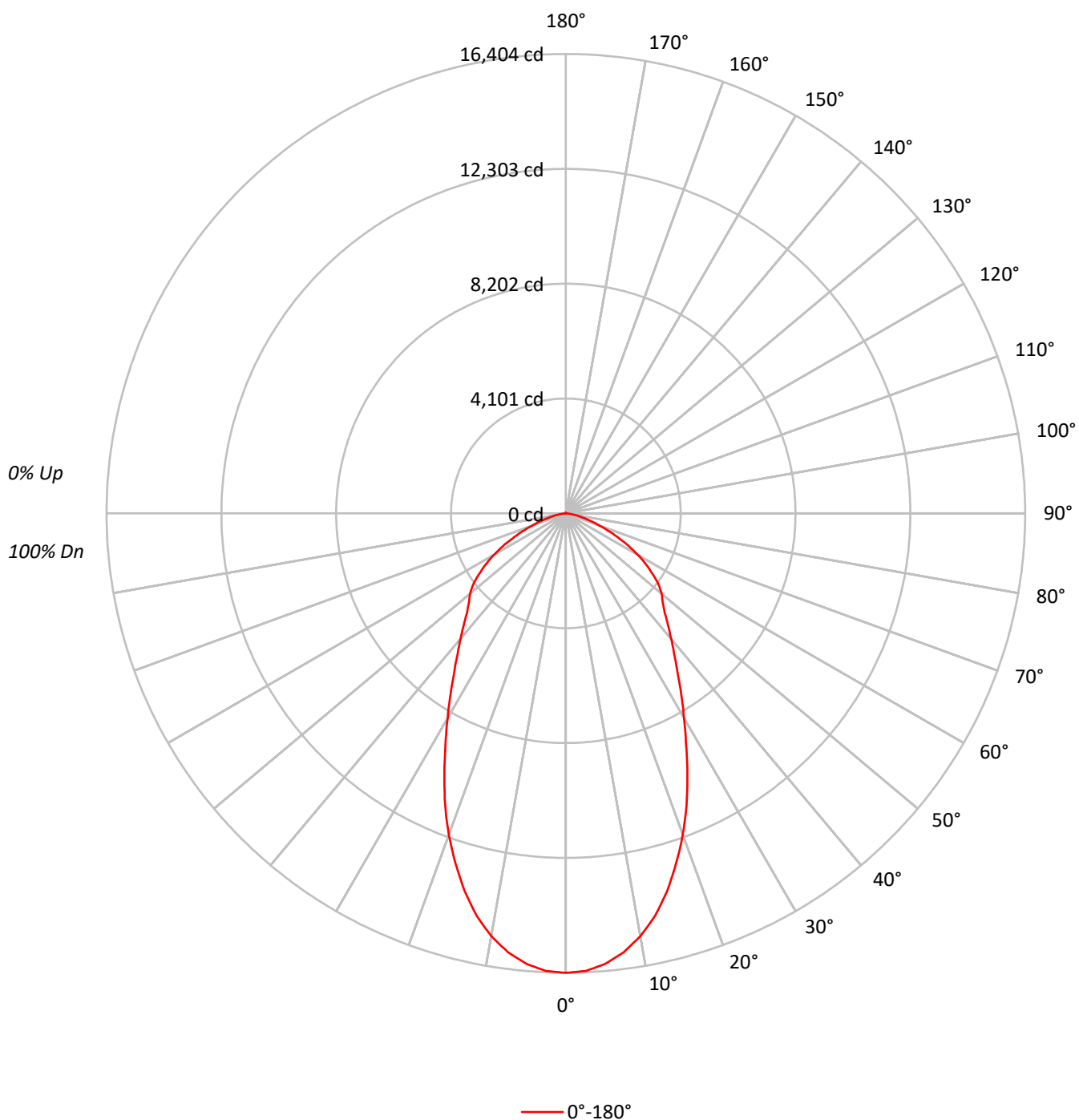
Lumens per Lamp: N/A
Luminaire Lumens: 24809.0 lumens
Efficiency: N/A
Efficacy: 162.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 152.8
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°	162836
5°	159370
10°	151603
15°	139465
20°	124163
25°	106962
30°	91083
35°	78331
40°	69465
45°	63131
50°	61098
55°	56799
60°	49849
65°	39802
70°	28956
75°	19267
80°	11426
85°	5302

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 63131 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1515.2	6.1
10°-20°	3891.7	15.7
20°-30°	4711.4	19.0
30°-40°	4385.5	17.7
40°-50°	3900.2	15.7
50°-60°	3371.1	13.6
60°-70°	2083.5	8.4
70°-80°	785.7	3.2
80°-90°	139.8	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°	3.1	0.0
170°-180°	1.3	0.0
0°-30°	10118.3	40.8
0°-40°	14503.8	58.5
0°-60°	21775.2	87.8
0°-90°	24784.2	99.9
90°-120°	7.7	0.0
90°-150°	16.5	0.1
90°-180°	25.0	0.1
0°-180°	24809.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16404	
5°	16145	###
15°	13965	3892
25°	10259	4711
35°	6954	4385
45°	4984	3900
55°	3790	3371
65°	2088	2083
75°	706	786
85°	104	132
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°	16403.8
2.5°	16355.7
5°	16145.2
7.5°	15804.5
10°	15327.6
12.5°	14718.3
15°	13964.8
17.5°	13103.0
20°	12217.2
22.5°	11267.2
25°	10259.1
27.5°	9307.2
30°	8443.4
32.5°	7663.8
35°	6954.3
37.5°	6363.1
40°	5848.0
42.5°	5391.1
45°	4984.3
47.5°	4687.7
50°	4467.2
52.5°	4176.6
55°	3789.8
57.5°	3397.0
60°	2982.1
62.5°	2537.2
65°	2088.3
67.5°	1675.4
70°	1294.7
72.5°	978.0
75°	705.5
77.5°	493.0
80°	322.7
82.5°	198.4
85°	104.2
87.5°	44.1
90°	12.0
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°	10.0
160°	10.0
162.5°	10.0
165°	12.0
167.5°	12.0
170°	12.0
172.5°	14.0
175°	14.0
177.5°	14.0
180°	16.0

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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	25.42	26.88	25.79	27.20	27.51	25.42	26.88	25.79	27.20	27.51
	3H	26.34	27.65	26.72	27.98	28.34	26.34	27.65	26.72	27.98	28.34
	4H	26.53	27.75	26.94	28.10	28.48	26.53	27.75	26.94	28.10	28.48
	6H	26.59	27.71	27.01	28.08	28.48	26.59	27.71	27.01	28.08	28.48
	8H	26.58	27.65	27.01	28.04	28.45	26.58	27.65	27.01	28.04	28.45
	12H	26.56	27.58	26.99	27.97	28.40	26.56	27.58	26.99	27.97	28.40
4H	2H	25.77	26.99	26.17	27.34	27.72	25.77	26.99	26.17	27.34	27.72
	3H	26.82	27.82	27.23	28.23	28.63	26.82	27.82	27.23	28.23	28.63
	4H	27.06	27.96	27.49	28.38	28.82	27.06	27.96	27.49	28.38	28.82
	6H	27.16	27.94	27.62	28.39	28.85	27.16	27.94	27.62	28.39	28.85
	8H	27.16	27.89	27.63	28.33	28.80	27.16	27.89	27.63	28.33	28.80
	12H	27.14	27.79	27.63	28.27	28.75	27.14	27.79	27.63	28.27	28.75
8H	4H	27.09	27.82	27.56	28.27	28.74	27.09	27.82	27.56	28.27	28.74
	6H	27.22	27.82	27.72	28.31	28.79	27.22	27.82	27.72	28.31	28.79
	8H	27.23	27.76	27.75	28.27	28.77	27.23	27.76	27.75	28.27	28.77
	12H	27.23	27.69	27.74	28.19	28.76	27.23	27.69	27.74	28.19	28.76
12H	4H	27.07	27.72	27.56	28.20	28.67	27.07	27.72	27.56	28.20	28.67
	6H	27.19	27.72	27.71	28.23	28.73	27.19	27.72	27.71	28.23	28.73
	8H	27.22	27.69	27.73	28.18	28.75	27.22	27.69	27.73	28.18	28.75

END OF REPORT