

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: P926844

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

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926844
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-MID-6500K
Description: UHBS2 LED High Bay at 6500K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

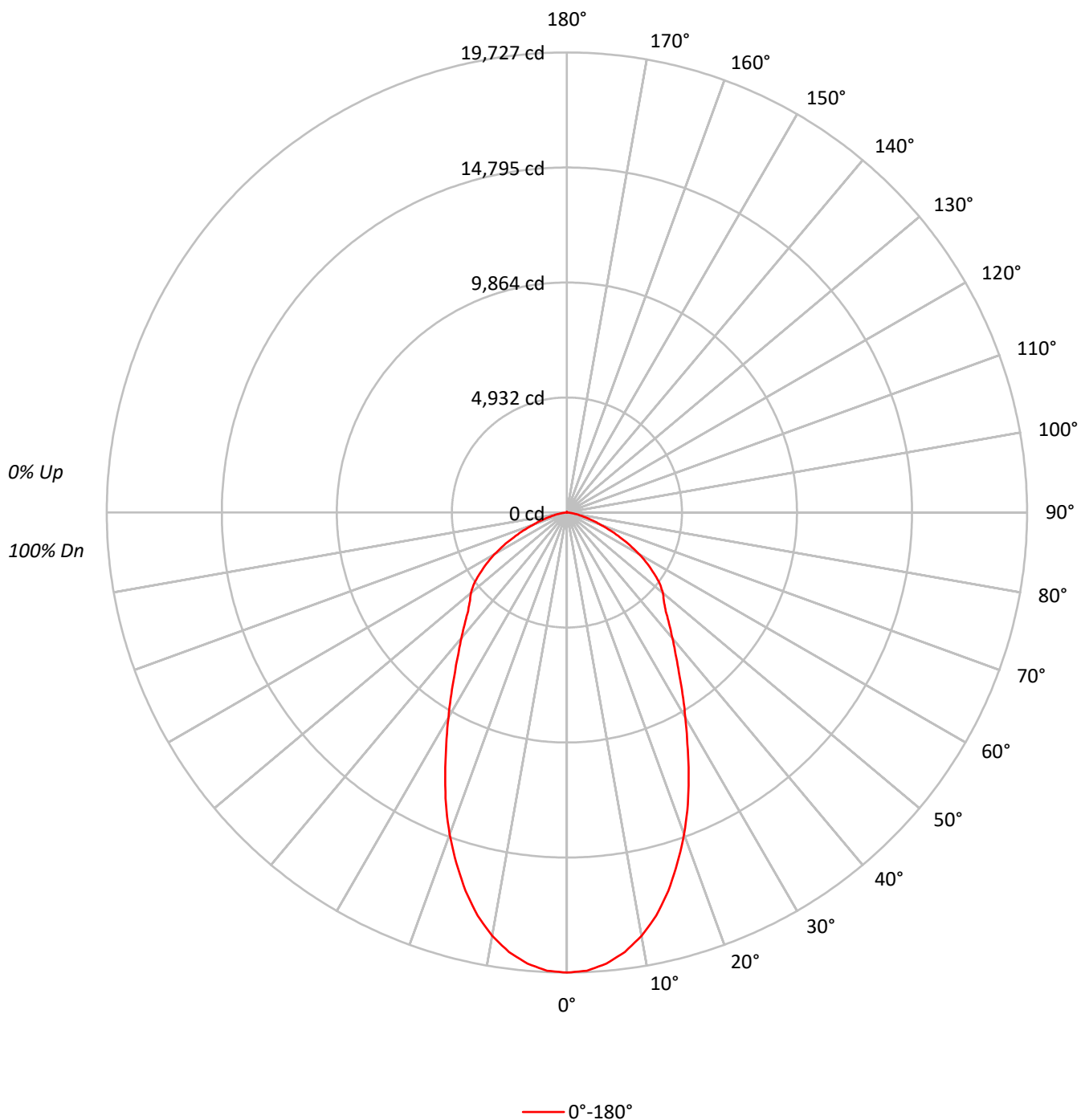
Lumens per Lamp: N/A
Luminaire Lumens: 29834.9 lumens
Efficiency: N/A
Efficacy: 153.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 195
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.998
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
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°	195824
5°	191657
10°	182315
15°	167718
20°	149316
25°	128632
30°	109535
35°	94200
40°	83538
45°	75920
50°	73475
55°	68306
60°	59949
65°	47866
70°	34820
75°	23169
80°	13738
85°	6375

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 75920 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1822.2	6.1
10°-20°	4680.1	15.7
20°-30°	5665.9	19.0
30°-40°	5274.0	17.7
40°-50°	4690.4	15.7
50°-60°	4054.1	13.6
60°-70°	2505.6	8.4
70°-80°	944.9	3.2
80°-90°	168.1	0.6
90°-100°	4.3	0.0
100°-110°	2.5	0.0
110°-120°	2.4	0.0
120°-130°	2.9	0.0
130°-140°	3.7	0.0
140°-150°	3.9	0.0
150°-160°	4.7	0.0
160°-170°	3.8	0.0
170°-180°	1.6	0.0
0°-30°	12168.1	40.8
0°-40°	17442.1	58.5
0°-60°	26186.5	87.8
0°-90°	29805.1	99.9
90°-120°	9.2	0.0
90°-150°	19.8	0.1
90°-180°	30.0	0.1
0°-180°	29834.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	19727	
5°	19416	###
15°	16794	4680
25°	12338	5666
35°	8363	5274
45°	5994	4690
55°	4558	4054
65°	2511	2506
75°	848	945
85°	125	159
90°	14	12
95°	2	2
105°	2	3
115°	2	2
125°	2	3
135°	5	4
145°	7	4
155°	10	5
165°	14	4
175°	17	2
180°	19	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	19727.0
2.5°	19669.1
5°	19416.1
7.5°	19006.3
10°	18432.7
12.5°	17700.1
15°	16793.8
17.5°	15757.5
20°	14692.2
22.5°	13549.8
25°	12337.5
27.5°	11192.7
30°	10153.9
32.5°	9216.4
35°	8363.2
37.5°	7652.2
40°	7032.8
42.5°	6483.3
45°	5994.0
47.5°	5637.3
50°	5372.2
52.5°	5022.7
55°	4557.6
57.5°	4085.2
60°	3586.3
62.5°	3051.2
65°	2511.4
67.5°	2014.9
70°	1556.9
72.5°	1176.1
75°	848.4
77.5°	592.9
80°	388.0
82.5°	238.6
85°	125.3
87.5°	53.0
90°	14.5
92.5°	2.4
95°	2.4
97.5°	2.4
100°	2.4
102.5°	2.4
105°	2.4
107.5°	2.4
110°	2.4



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	2.4
115°	2.4
117.5°	2.4
120°	2.4
122.5°	2.4
125°	2.4
127.5°	4.8
130°	4.8
132.5°	4.8
135°	4.8
137.5°	4.8
140°	4.8
142.5°	4.8
145°	7.2
147.5°	7.2
150°	7.2
152.5°	9.6
155°	9.6
157.5°	12.1
160°	12.1
162.5°	12.1
165°	14.5
167.5°	14.5
170°	14.5
172.5°	16.9
175°	16.9
177.5°	16.9
180°	19.3

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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	26.06	27.52	26.43	27.84	28.15	26.06	27.52	26.43	27.84	28.15
	3H	26.98	28.29	27.36	28.62	28.98	26.98	28.29	27.36	28.62	28.98
	4H	27.17	28.39	27.58	28.74	29.13	27.17	28.39	27.58	28.74	29.13
	6H	27.23	28.35	27.65	28.72	29.12	27.23	28.35	27.65	28.72	29.12
	8H	27.22	28.29	27.65	28.68	29.09	27.22	28.29	27.65	28.68	29.09
	12H	27.20	28.22	27.63	28.61	29.04	27.20	28.22	27.63	28.61	29.04
4H	2H	26.41	27.63	26.81	27.98	28.36	26.41	27.63	26.81	27.98	28.36
	3H	27.46	28.46	27.87	28.87	29.27	27.46	28.46	27.87	28.87	29.27
	4H	27.70	28.60	28.14	29.02	29.46	27.70	28.60	28.14	29.02	29.46
	6H	27.80	28.58	28.27	29.03	29.49	27.80	28.58	28.27	29.03	29.49
	8H	27.80	28.53	28.27	28.97	29.44	27.80	28.53	28.27	28.97	29.44
	12H	27.79	28.43	28.27	28.91	29.39	27.79	28.43	28.27	28.91	29.39
8H	4H	27.74	28.46	28.20	28.91	29.38	27.74	28.46	28.20	28.91	29.38
	6H	27.86	28.46	28.36	28.95	29.43	27.86	28.46	28.36	28.95	29.43
	8H	27.87	28.40	28.39	28.91	29.41	27.87	28.40	28.39	28.91	29.41
	12H	27.87	28.33	28.38	28.83	29.40	27.87	28.33	28.38	28.83	29.40
12H	4H	27.71	28.36	28.20	28.84	29.31	27.71	28.36	28.20	28.84	29.31
	6H	27.83	28.36	28.35	28.87	29.37	27.83	28.36	28.35	28.87	29.37
	8H	27.86	28.33	28.37	28.82	29.39	27.86	28.33	28.37	28.82	29.39