

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: P926797

Luminaire Tested: UHBS2-1218-N-L83065-MID-4000K

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926797
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: UHBS2-1218-N-L83065-MID-4000K
Description: UHBS2 LED High Bay at 4000K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

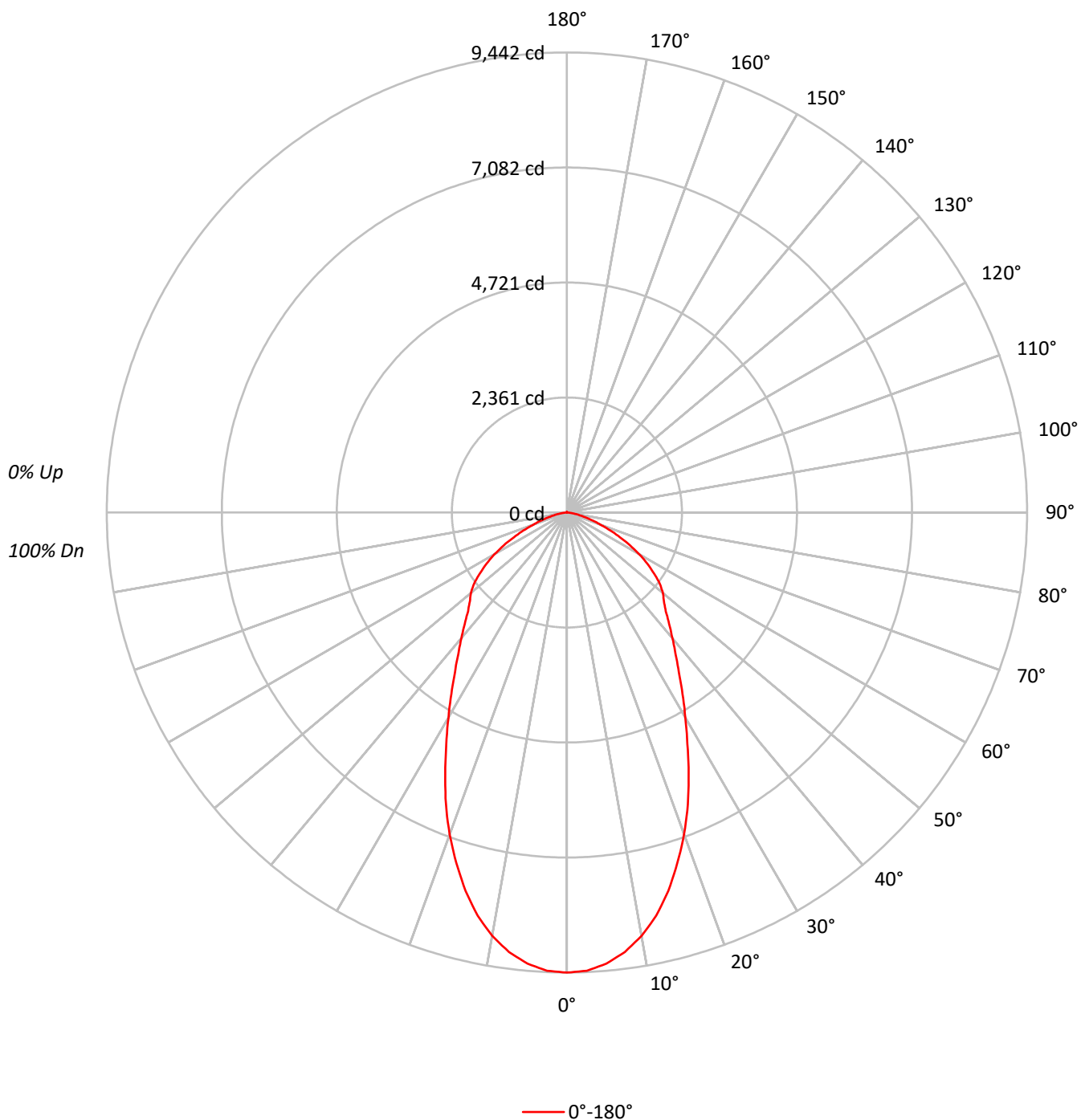
Lumens per Lamp: N/A
Luminaire Lumens: 14280.2 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 96.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 7.15
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°	129403
5°	126442
10°	120082
15°	110286
20°	98019
25°	84291
30°	71644
35°	61490
40°	54409
45°	49324
50°	47601
55°	44103
60°	38548
65°	30619
70°	22122
75°	14577
80°	8511
85°	3843

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 49324 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	872.2	6.1
10°-20°	2240.0	15.7
20°-30°	2711.9	19.0
30°-40°	2524.3	17.7
40°-50°	2244.9	15.7
50°-60°	1940.4	13.6
60°-70°	1199.3	8.4
70°-80°	452.3	3.2
80°-90°	80.5	0.6
90°-100°	2.1	0.0
100°-110°	1.3	0.0
110°-120°	1.2	0.0
120°-130°	1.4	0.0
130°-140°	1.8	0.0
140°-150°	1.9	0.0
150°-160°	2.2	0.0
160°-170°	1.8	0.0
170°-180°	0.8	0.0
0°-30°	5824.1	40.8
0°-40°	8348.4	58.5
0°-60°	12533.7	87.8
0°-90°	14265.7	99.9
90°-120°	4.6	0.0
90°-150°	9.7	0.1
90°-180°	14.0	0.1
0°-180°	14280.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9442	
5°	9293	872
15°	8038	2240
25°	5905	2712
35°	4003	2524
45°	2869	2245
55°	2181	1940
65°	1202	1199
75°	406	452
85°	60	76
90°	7	6
95°	1	1
105°	1	1
115°	1	1
125°	1	1
135°	2	2
145°	4	2
155°	5	2
165°	7	2
175°	8	1
180°	9	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	9442.0
2.5°	9414.3
5°	9293.2
7.5°	9097.1
10°	8822.5
12.5°	8471.8
15°	8038.1
17.5°	7542.0
20°	7032.2
22.5°	6485.4
25°	5905.1
27.5°	5357.2
30°	4860.0
32.5°	4411.3
35°	4002.9
37.5°	3662.6
40°	3366.1
42.5°	3103.1
45°	2868.9
47.5°	2698.2
50°	2571.3
52.5°	2404.0
55°	2181.4
57.5°	1955.3
60°	1716.5
62.5°	1460.4
65°	1202.0
67.5°	964.4
70°	745.2
72.5°	562.9
75°	406.1
77.5°	283.8
80°	185.7
82.5°	114.2
85°	60.0
87.5°	25.4
90°	6.9
92.5°	1.2
95°	1.2
97.5°	1.2
100°	1.2
102.5°	1.2
105°	1.2
107.5°	1.2
110°	1.2

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.2
115°	1.2
117.5°	1.2
120°	1.2
122.5°	1.2
125°	1.2
127.5°	2.3
130°	2.3
132.5°	2.3
135°	2.3
137.5°	2.3
140°	2.3
142.5°	2.3
145°	3.5
147.5°	3.5
150°	3.5
152.5°	4.6
155°	4.6
157.5°	5.8
160°	5.8
162.5°	5.8
165°	6.9
167.5°	6.9
170°	6.9
172.5°	8.1
175°	8.1
177.5°	8.1
180°	9.2

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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	24.52	25.98	24.88	26.29	26.61	24.52	25.98	24.88	26.29	26.61
	3H	25.43	26.73	25.81	27.06	27.43	25.43	26.73	25.81	27.06	27.43
	4H	25.61	26.83	26.02	27.18	27.57	25.61	26.83	26.02	27.18	27.57
	6H	25.67	26.79	26.08	27.16	27.56	25.67	26.79	26.08	27.16	27.56
	8H	25.66	26.72	26.09	27.12	27.52	25.66	26.72	26.09	27.12	27.52
	12H	25.64	26.66	26.07	27.04	27.47	25.64	26.66	26.07	27.04	27.47
4H	2H	24.86	26.08	25.26	26.43	26.81	24.86	26.08	25.26	26.43	26.81
	3H	25.90	26.90	26.31	27.30	27.71	25.90	26.90	26.31	27.30	27.71
	4H	26.13	27.03	26.57	27.45	27.89	26.13	27.03	26.57	27.45	27.89
	6H	26.23	27.01	26.69	27.46	27.92	26.23	27.01	26.69	27.46	27.92
	8H	26.22	26.95	26.69	27.40	27.87	26.22	26.95	26.69	27.40	27.87
	12H	26.21	26.85	26.69	27.34	27.81	26.21	26.85	26.69	27.34	27.81
8H	4H	26.16	26.89	26.63	27.34	27.81	26.16	26.89	26.63	27.34	27.81
	6H	26.28	26.88	26.78	27.37	27.85	26.28	26.88	26.78	27.37	27.85
	8H	26.29	26.82	26.81	27.33	27.83	26.29	26.82	26.81	27.33	27.83
	12H	26.28	26.75	26.80	27.25	27.82	26.28	26.75	26.80	27.25	27.82
12H	4H	26.14	26.78	26.62	27.27	27.74	26.14	26.78	26.62	27.27	27.74
	6H	26.25	26.78	26.77	27.30	27.79	26.25	26.78	26.77	27.30	27.79
	8H	26.28	26.75	26.79	27.24	27.81	26.28	26.75	26.79	27.24	27.81