

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: P926791

Luminaire Tested: UHBS2-1218-N-L83065-LOW-3500K

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926791
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-LOW-3500K
Description: UHBS2 LED High Bay at 3500K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

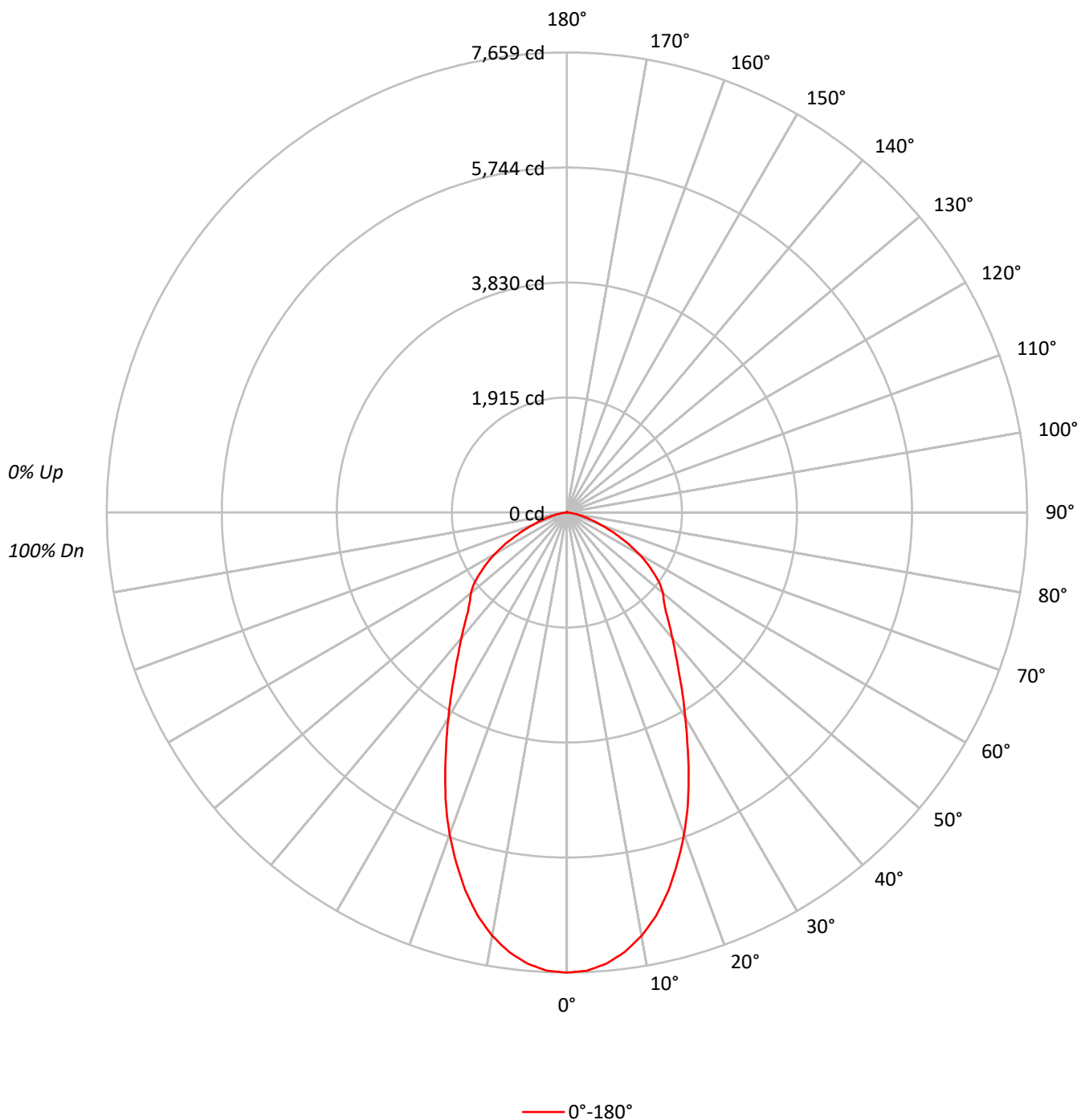
Lumens per Lamp: N/A
Luminaire Lumens: 11582.9 lumens
Efficiency: N/A
Efficacy: 145.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 79.4
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 7.2
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°	104963
5°	102561
10°	97402
15°	89457
20°	79506
25°	68373
30°	58113
35°	49876
40°	44134
45°	40009
50°	38611
55°	35773
60°	31268
65°	24837
70°	17945
75°	11824
80°	6902
85°	3119

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 40009 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	707.4	6.1
10°-20°	1817.0	15.7
20°-30°	2199.7	19.0
30°-40°	2047.5	17.7
40°-50°	1821.0	15.7
50°-60°	1573.9	13.6
60°-70°	972.8	8.4
70°-80°	366.9	3.2
80°-90°	65.3	0.6
90°-100°	1.6	0.0
100°-110°	1.0	0.0
110°-120°	0.9	0.0
120°-130°	1.1	0.0
130°-140°	1.5	0.0
140°-150°	1.5	0.0
150°-160°	1.8	0.0
160°-170°	1.5	0.0
170°-180°	0.6	0.0
0°-30°	4724.1	40.8
0°-40°	6771.6	58.5
0°-60°	10166.5	87.8
0°-90°	11571.4	99.9
90°-120°	3.5	0.0
90°-150°	7.6	0.1
90°-180°	11.0	0.1
0°-180°	11582.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7659	
5°	7538	707
15°	6520	1817
25°	4790	2200
35°	3247	2048
45°	2327	1821
55°	1769	1574
65°	975	973
75°	329	367
85°	49	62
90°	6	4
95°	1	1
105°	1	1
115°	1	1
125°	1	1
135°	2	1
145°	3	2
155°	4	2
165°	6	1
175°	6	1
180°	8	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	7658.7
2.5°	7636.3
5°	7538.0
7.5°	7378.9
10°	7156.2
12.5°	6871.8
15°	6520.0
17.5°	6117.6
20°	5704.0
22.5°	5260.5
25°	4789.9
27.5°	4345.4
30°	3942.1
32.5°	3578.1
35°	3246.9
37.5°	2970.8
40°	2730.4
42.5°	2517.0
45°	2327.1
47.5°	2188.6
50°	2085.7
52.5°	1950.0
55°	1769.4
57.5°	1586.0
60°	1392.3
62.5°	1184.6
65°	975.0
67.5°	782.2
70°	604.5
72.5°	456.6
75°	329.4
77.5°	230.2
80°	150.6
82.5°	92.6
85°	48.7
87.5°	20.6
90°	5.6
92.5°	0.9
95°	0.9
97.5°	0.9
100°	0.9
102.5°	0.9
105°	0.9
107.5°	0.9
110°	0.9



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.9
115°	0.9
117.5°	0.9
120°	0.9
122.5°	0.9
125°	0.9
127.5°	1.9
130°	1.9
132.5°	1.9
135°	1.9
137.5°	1.9
140°	1.9
142.5°	1.9
145°	2.8
147.5°	2.8
150°	2.8
152.5°	3.7
155°	3.7
157.5°	4.7
160°	4.7
162.5°	4.7
165°	5.6
167.5°	5.6
170°	5.6
172.5°	6.5
175°	6.5
177.5°	6.5
180°	7.5

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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	23.79	25.25	24.16	25.56	25.88	23.79	25.25	24.16	25.56	25.88
	3H	24.70	26.00	25.08	26.33	26.70	24.70	26.00	25.08	26.33	26.70
	4H	24.89	26.10	25.29	26.46	26.84	24.89	26.10	25.29	26.46	26.84
	6H	24.94	26.06	25.36	26.43	26.83	24.94	26.06	25.36	26.43	26.83
	8H	24.93	26.00	25.36	26.39	26.79	24.93	26.00	25.36	26.39	26.79
	12H	24.91	25.93	25.34	26.31	26.74	24.91	25.93	25.34	26.31	26.74
4H	2H	24.13	25.35	24.53	25.70	26.08	24.13	25.35	24.53	25.70	26.08
	3H	25.17	26.17	25.58	26.58	26.98	25.17	26.17	25.58	26.58	26.98
	4H	25.40	26.30	25.84	26.72	27.16	25.40	26.30	25.84	26.72	27.16
	6H	25.50	26.28	25.96	26.73	27.19	25.50	26.28	25.96	26.73	27.19
	8H	25.50	26.22	25.96	26.67	27.14	25.50	26.22	25.96	26.67	27.14
	12H	25.48	26.13	25.97	26.61	27.08	25.48	26.13	25.97	26.61	27.08
8H	4H	25.44	26.16	25.90	26.61	27.08	25.44	26.16	25.90	26.61	27.08
	6H	25.56	26.15	26.06	26.65	27.13	25.56	26.15	26.06	26.65	27.13
	8H	25.56	26.09	26.08	26.61	27.10	25.56	26.09	26.08	26.61	27.10
	12H	25.56	26.03	26.07	26.52	27.09	25.56	26.03	26.07	26.52	27.09
12H	4H	25.41	26.06	25.90	26.54	27.01	25.41	26.06	25.90	26.54	27.01
	6H	25.52	26.05	26.04	26.57	27.06	25.52	26.05	26.04	26.57	27.06
	8H	25.55	26.02	26.06	26.51	27.08	25.55	26.02	26.06	26.51	27.08