

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: P926794

Luminaire Tested: UHBS2-1218-N-L83065-LOW-6500K

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926794
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-6500K
Description: UHBS2 LED High Bay at 6500K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

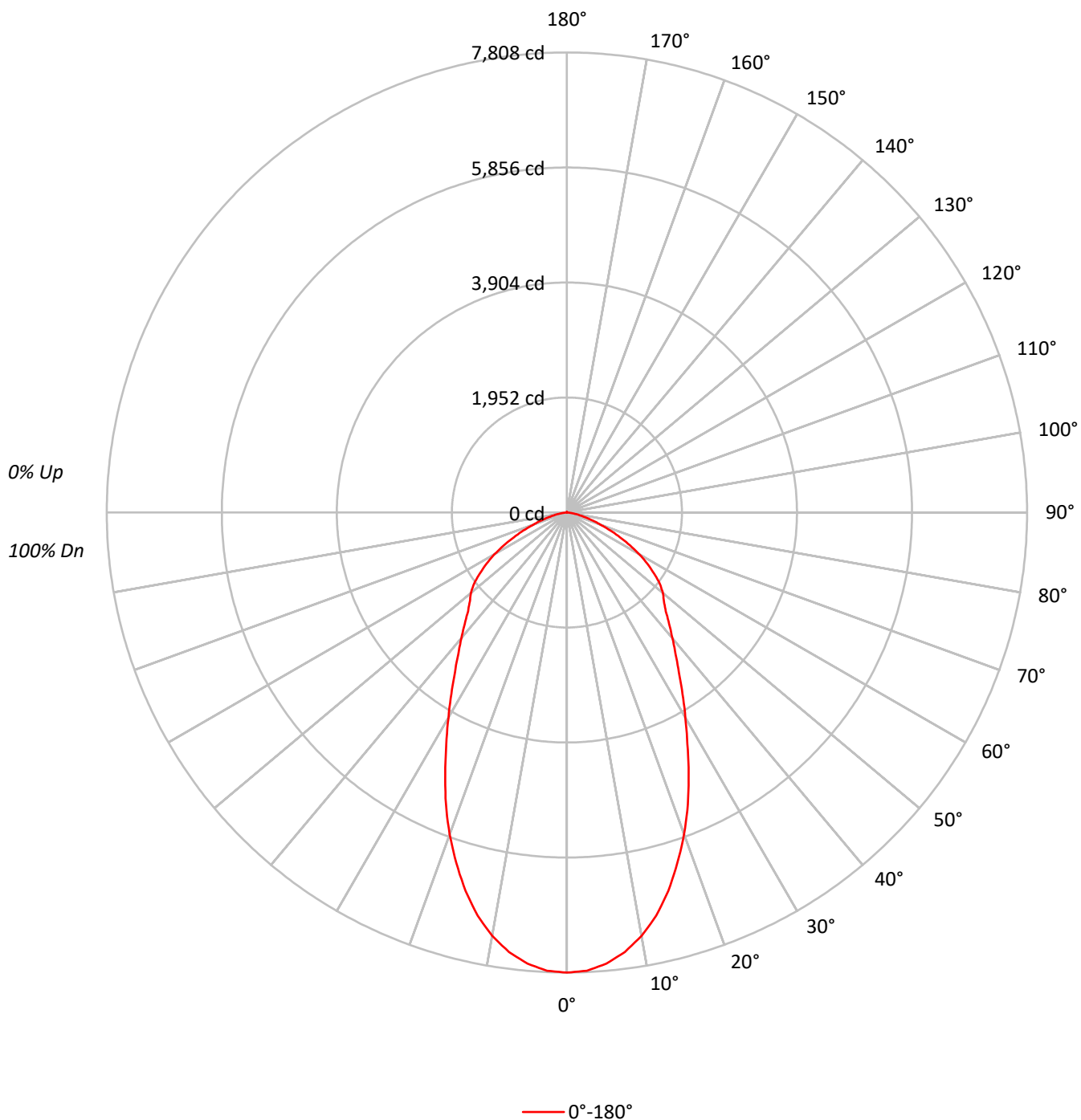
Lumens per Lamp: N/A
Luminaire Lumens: 11809.1 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 80.4
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°	107010
5°	104562
10°	99304
15°	91202
20°	81057
25°	69706
30°	59246
35°	50849
40°	44993
45°	40790
50°	39364
55°	36471
60°	31878
65°	25321
70°	18296
75°	12054
80°	7040
85°	3177

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 40790 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	721.2	6.1
10°-20°	1852.4	15.7
20°-30°	2242.6	19.0
30°-40°	2087.5	17.7
40°-50°	1856.5	15.7
50°-60°	1604.6	13.6
60°-70°	991.7	8.4
70°-80°	374.0	3.2
80°-90°	66.5	0.6
90°-100°	1.7	0.0
100°-110°	1.1	0.0
110°-120°	1.0	0.0
120°-130°	1.2	0.0
130°-140°	1.5	0.0
140°-150°	1.6	0.0
150°-160°	1.9	0.0
160°-170°	1.5	0.0
170°-180°	0.6	0.0
0°-30°	4816.3	40.8
0°-40°	6903.7	58.5
0°-60°	10364.9	87.8
0°-90°	11797.1	99.9
90°-120°	3.8	0.0
90°-150°	8.0	0.1
90°-180°	12.0	0.1
0°-180°	11809.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7808	
5°	7685	721
15°	6647	1852
25°	4883	2243
35°	3310	2087
45°	2372	1856
55°	1804	1605
65°	994	992
75°	336	374
85°	50	63
90°	6	5
95°	1	1
105°	1	1
115°	1	1
125°	1	1
135°	2	1
145°	3	2
155°	4	2
165°	6	2
175°	7	1
180°	8	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	7808.1
2.5°	7785.2
5°	7685.1
7.5°	7522.9
10°	7295.9
12.5°	7005.9
15°	6647.2
17.5°	6237.0
20°	5815.3
22.5°	5363.1
25°	4883.3
27.5°	4430.2
30°	4019.0
32.5°	3647.9
35°	3310.2
37.5°	3028.8
40°	2783.6
42.5°	2566.1
45°	2372.5
47.5°	2231.3
50°	2126.4
52.5°	1988.0
55°	1803.9
57.5°	1617.0
60°	1419.5
62.5°	1207.7
65°	994.0
67.5°	797.5
70°	616.3
72.5°	465.5
75°	335.8
77.5°	234.7
80°	153.6
82.5°	94.4
85°	49.6
87.5°	21.0
90°	5.7
92.5°	1.0
95°	1.0
97.5°	1.0
100°	1.0
102.5°	1.0
105°	1.0
107.5°	1.0
110°	1.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.0
115°	1.0
117.5°	1.0
120°	1.0
122.5°	1.0
125°	1.0
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°	2.9
147.5°	2.9
150°	2.9
152.5°	3.8
155°	3.8
157.5°	4.8
160°	4.8
162.5°	4.8
165°	5.7
167.5°	5.7
170°	5.7
172.5°	6.7
175°	6.7
177.5°	6.7
180°	7.6

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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	23.86	25.32	24.22	25.63	25.95	23.86	25.32	24.22	25.63	25.95
	3H	24.77	26.07	25.15	26.40	26.77	24.77	26.07	25.15	26.40	26.77
	4H	24.95	26.17	25.36	26.52	26.91	24.95	26.17	25.36	26.52	26.91
	6H	25.01	26.13	25.42	26.50	26.90	25.01	26.13	25.42	26.50	26.90
	8H	25.00	26.06	25.43	26.46	26.86	25.00	26.06	25.43	26.46	26.86
	12H	24.98	26.00	25.41	26.38	26.81	24.98	26.00	25.41	26.38	26.81
4H	2H	24.20	25.42	24.60	25.77	26.15	24.20	25.42	24.60	25.77	26.15
	3H	25.24	26.24	25.65	26.64	27.05	25.24	26.24	25.65	26.64	27.05
	4H	25.47	26.37	25.91	26.79	27.23	25.47	26.37	25.91	26.79	27.23
	6H	25.57	26.35	26.03	26.80	27.26	25.57	26.35	26.03	26.80	27.26
	8H	25.56	26.29	26.03	26.74	27.21	25.56	26.29	26.03	26.74	27.21
	12H	25.55	26.19	26.03	26.68	27.15	25.55	26.19	26.03	26.68	27.15
8H	4H	25.50	26.23	25.97	26.68	27.15	25.50	26.23	25.97	26.68	27.15
	6H	25.62	26.22	26.12	26.71	27.19	25.62	26.22	26.12	26.71	27.19
	8H	25.63	26.16	26.15	26.67	27.17	25.63	26.16	26.15	26.67	27.17
	12H	25.62	26.09	26.14	26.59	27.16	25.62	26.09	26.14	26.59	27.16
12H	4H	25.48	26.12	25.96	26.61	27.08	25.48	26.12	25.96	26.61	27.08
	6H	25.59	26.12	26.11	26.64	27.13	25.59	26.12	26.11	26.64	27.13
	8H	25.62	26.09	26.13	26.58	27.15	25.62	26.09	26.13	26.58	27.15