

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: P926798

Luminaire Tested: UHBS2-1218-N-L83065-MID-5000K

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926798
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-5000K
Description: UHBS2 LED High Bay at 5000K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

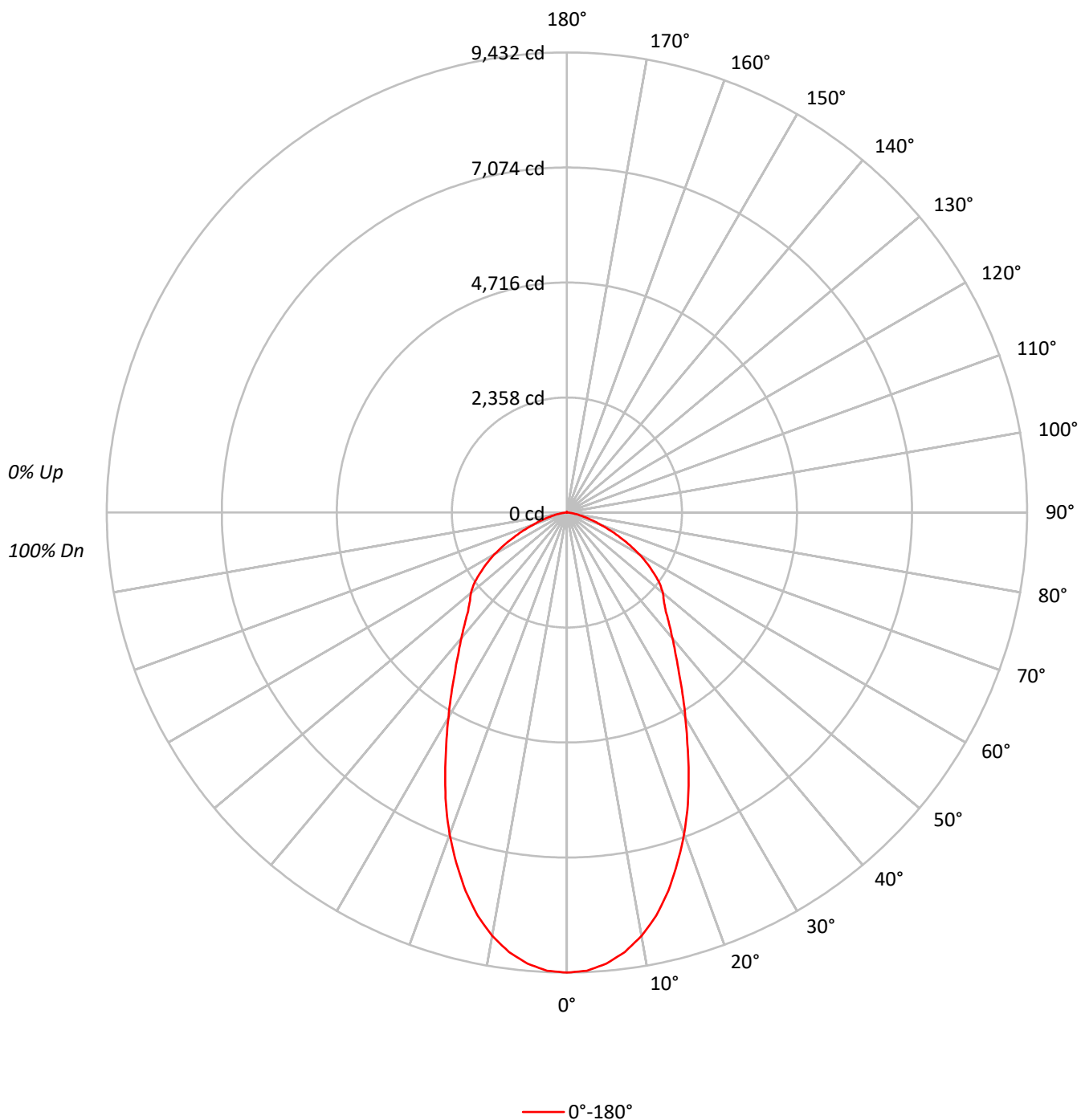
Lumens per Lamp: N/A
Luminaire Lumens: 14265.2 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 96.6
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°	129267
5°	126308
10°	119956
15°	110169
20°	97916
25°	84203
30°	71569
35°	61425
40°	54352
45°	49273
50°	47551
55°	44056
60°	38508
65°	30589
70°	22098
75°	14559
80°	8502
85°	3836

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 49273 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	871.2	6.1
10°-20°	2237.7	15.7
20°-30°	2709.0	19.0
30°-40°	2521.6	17.7
40°-50°	2242.6	15.7
50°-60°	1938.4	13.6
60°-70°	1198.0	8.4
70°-80°	451.8	3.2
80°-90°	80.4	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°	5817.9	40.8
0°-40°	8339.6	58.5
0°-60°	12520.5	87.8
0°-90°	14250.7	99.9
90°-120°	4.6	0.0
90°-150°	9.7	0.1
90°-180°	14.0	0.1
0°-180°	14265.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9432	
5°	9283	871
15°	8030	2238
25°	5899	2709
35°	3999	2522
45°	2866	2243
55°	2179	1938
65°	1201	1198
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°	9432.1
2.5°	9404.4
5°	9283.4
7.5°	9087.5
10°	8813.2
12.5°	8462.9
15°	8029.6
17.5°	7534.1
20°	7024.8
22.5°	6478.6
25°	5898.9
27.5°	5351.6
30°	4854.9
32.5°	4406.6
35°	3998.7
37.5°	3658.7
40°	3362.6
42.5°	3099.8
45°	2865.9
47.5°	2695.4
50°	2568.6
52.5°	2401.5
55°	2179.1
57.5°	1953.2
60°	1714.7
62.5°	1458.9
65°	1200.8
67.5°	963.4
70°	744.4
72.5°	562.4
75°	405.6
77.5°	283.5
80°	185.5
82.5°	114.1
85°	59.9
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	24.51	25.97	24.88	26.29	26.60	24.51	25.97	24.88	26.29	26.60
	3H	25.42	26.73	25.80	27.06	27.42	25.42	26.73	25.80	27.06	27.42
	4H	25.61	26.83	26.01	27.18	27.56	25.61	26.83	26.01	27.18	27.56
	6H	25.66	26.79	26.08	27.16	27.55	25.66	26.79	26.08	27.16	27.55
	8H	25.65	26.72	26.08	27.11	27.52	25.65	26.72	26.08	27.11	27.52
	12H	25.63	26.65	26.06	27.04	27.47	25.63	26.65	26.06	27.04	27.47
4H	2H	24.86	26.07	25.26	26.43	26.81	24.86	26.07	25.26	26.43	26.81
	3H	25.89	26.90	26.30	27.30	27.70	25.89	26.90	26.30	27.30	27.70
	4H	26.13	27.03	26.56	27.45	27.89	26.13	27.03	26.56	27.45	27.89
	6H	26.23	27.01	26.69	27.45	27.92	26.23	27.01	26.69	27.45	27.92
	8H	26.22	26.95	26.69	27.39	27.87	26.22	26.95	26.69	27.39	27.87
	12H	26.20	26.85	26.69	27.33	27.81	26.20	26.85	26.69	27.33	27.81
8H	4H	26.16	26.89	26.63	27.33	27.80	26.16	26.89	26.63	27.33	27.80
	6H	26.28	26.87	26.78	27.37	27.85	26.28	26.87	26.78	27.37	27.85
	8H	26.28	26.82	26.80	27.33	27.82	26.28	26.82	26.80	27.33	27.82
	12H	26.28	26.75	26.79	27.24	27.81	26.28	26.75	26.79	27.24	27.81
12H	4H	26.13	26.78	26.62	27.26	27.74	26.13	26.78	26.62	27.26	27.74
	6H	26.24	26.78	26.76	27.29	27.78	26.24	26.78	26.76	27.29	27.78
	8H	26.27	26.74	26.79	27.24	27.81	26.27	26.74	26.79	27.24	27.81