

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: P926785

Luminaire Tested: UHBS2-1218-N-L83065-HIGH-3000K

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926785
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-HIGH-3000K
Description: UHBS2 LED High Bay at 3000K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

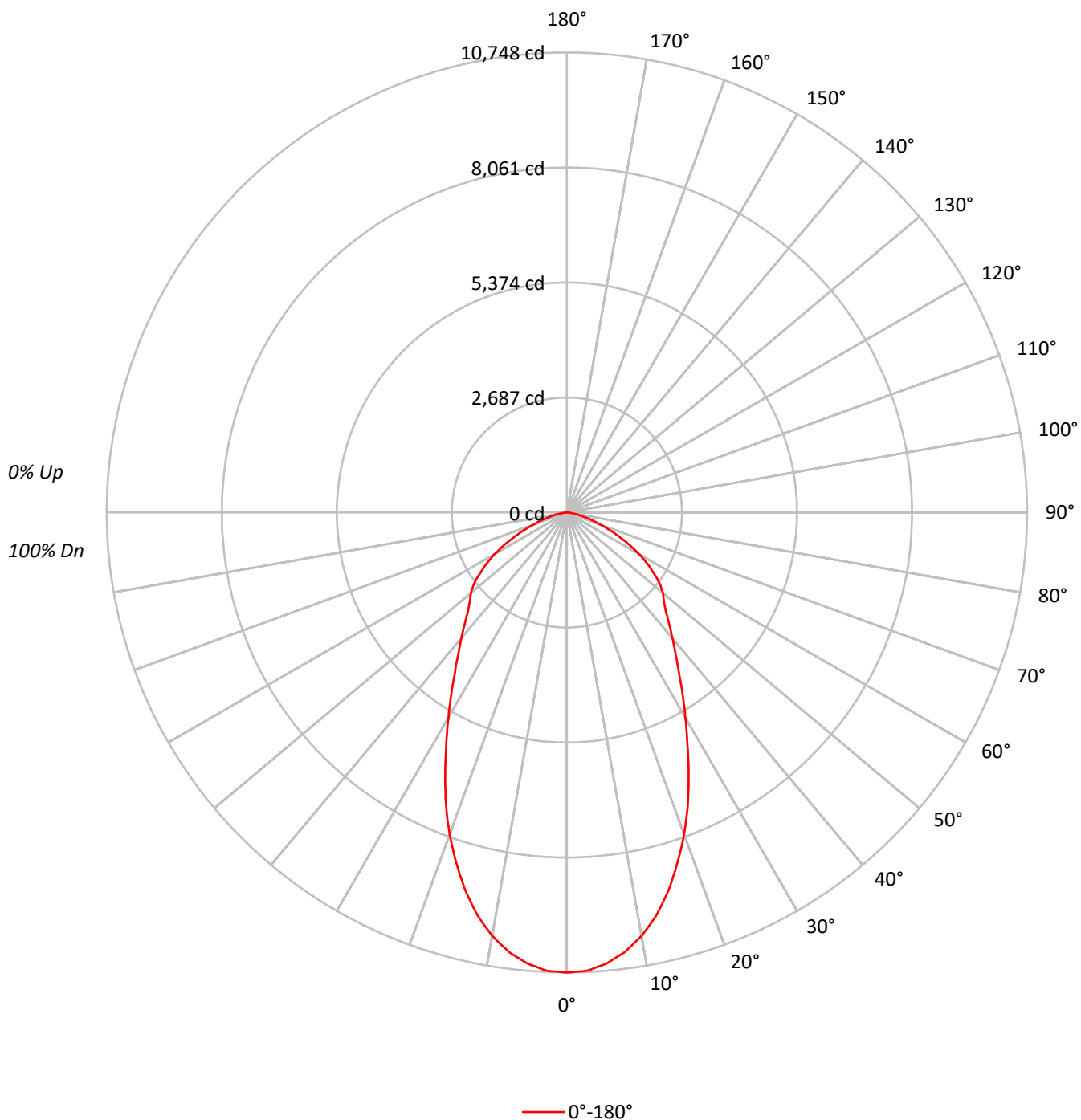
Lumens per Lamp: N/A
Luminaire Lumens: 16255.9 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 122
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 6.9
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°	147309
5°	143937
10°	136698
15°	125546
20°	111582
25°	95956
30°	81558
35°	69998
40°	61938
45°	56150
50°	54187
55°	50207
60°	43882
65°	34858
70°	25183
75°	16591
80°	9689
85°	4374

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 56150 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	992.8	6.1
10°-20°	2550.0	15.7
20°-30°	3087.1	19.0
30°-40°	2873.6	17.7
40°-50°	2555.6	15.7
50°-60°	2208.9	13.6
60°-70°	1365.2	8.4
70°-80°	514.8	3.2
80°-90°	91.6	0.6
90°-100°	2.3	0.0
100°-110°	1.4	0.0
110°-120°	1.3	0.0
120°-130°	1.6	0.0
130°-140°	2.0	0.0
140°-150°	2.1	0.0
150°-160°	2.6	0.0
160°-170°	2.1	0.0
170°-180°	0.9	0.0
0°-30°	6630.0	40.8
0°-40°	9503.6	58.5
0°-60°	14268.1	87.8
0°-90°	16239.7	99.9
90°-120°	5.0	0.0
90°-150°	10.7	0.1
90°-180°	16.0	0.1
0°-180°	16255.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10748	
5°	10579	993
15°	9150	2550
25°	6722	3087
35°	4557	2874
45°	3266	2556
55°	2483	2209
65°	1368	1365
75°	462	515
85°	68	87
90°	8	6
95°	1	1
105°	1	1
115°	1	1
125°	1	2
135°	3	2
145°	4	2
155°	5	3
165°	8	2
175°	9	1
180°	10	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	10748.5
2.5°	10717.0
5°	10579.1
7.5°	10355.9
10°	10043.3
12.5°	9644.1
15°	9150.3
17.5°	8585.7
20°	8005.2
22.5°	7382.8
25°	6722.3
27.5°	6098.5
30°	5532.5
32.5°	5021.7
35°	4556.8
37.5°	4169.4
40°	3831.9
42.5°	3532.5
45°	3265.9
47.5°	3071.6
50°	2927.1
52.5°	2736.7
55°	2483.3
57.5°	2225.9
60°	1954.0
62.5°	1662.5
65°	1368.4
67.5°	1097.8
70°	848.3
72.5°	640.8
75°	462.2
77.5°	323.0
80°	211.4
82.5°	130.0
85°	68.3
87.5°	28.9
90°	7.9
92.5°	1.3
95°	1.3
97.5°	1.3
100°	1.3
102.5°	1.3
105°	1.3
107.5°	1.3
110°	1.3



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.3
115°	1.3
117.5°	1.3
120°	1.3
122.5°	1.3
125°	1.3
127.5°	2.6
130°	2.6
132.5°	2.6
135°	2.6
137.5°	2.6
140°	2.6
142.5°	2.6
145°	3.9
147.5°	3.9
150°	3.9
152.5°	5.3
155°	5.3
157.5°	6.6
160°	6.6
162.5°	6.6
165°	7.9
167.5°	7.9
170°	7.9
172.5°	9.2
175°	9.2
177.5°	9.2
180°	10.5

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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	24.97	26.43	25.34	26.74	27.06	24.97	26.43	25.34	26.74	27.06
	3H	25.88	27.18	26.26	27.51	27.88	25.88	27.18	26.26	27.51	27.88
	4H	26.06	27.28	26.47	27.63	28.02	26.06	27.28	26.47	27.63	28.02
	6H	26.12	27.24	26.53	27.61	28.01	26.12	27.24	26.53	27.61	28.01
	8H	26.11	27.17	26.54	27.57	27.97	26.11	27.17	26.54	27.57	27.97
	12H	26.09	27.11	26.52	27.49	27.92	26.09	27.11	26.52	27.49	27.92
4H	2H	25.31	26.53	25.71	26.88	27.26	25.31	26.53	25.71	26.88	27.26
	3H	26.35	27.35	26.76	27.75	28.16	26.35	27.35	26.76	27.75	28.16
	4H	26.58	27.48	27.02	27.90	28.34	26.58	27.48	27.02	27.90	28.34
	6H	26.68	27.46	27.14	27.91	28.37	26.68	27.46	27.14	27.91	28.37
	8H	26.67	27.40	27.14	27.85	28.32	26.67	27.40	27.14	27.85	28.32
	12H	26.66	27.30	27.14	27.79	28.26	26.66	27.30	27.14	27.79	28.26
8H	4H	26.61	27.34	27.08	27.79	28.26	26.61	27.34	27.08	27.79	28.26
	6H	26.73	27.33	27.23	27.82	28.30	26.73	27.33	27.23	27.82	28.30
	8H	26.74	27.27	27.26	27.78	28.28	26.74	27.27	27.26	27.78	28.28
	12H	26.73	27.20	27.25	27.70	28.27	26.73	27.20	27.25	27.70	28.27
12H	4H	26.59	27.23	27.07	27.72	28.19	26.59	27.23	27.07	27.72	28.19
	6H	26.70	27.23	27.22	27.75	28.24	26.70	27.23	27.22	27.75	28.24
	8H	26.73	27.20	27.24	27.69	28.26	26.73	27.20	27.24	27.69	28.26

END OF REPORT