

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: P980701

Luminaire Tested: UHBS2-2436-M-L83065-MID-5000K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-8)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-2436-M-L83065-MID-5000K-FRR6
Description: UHBS2 LED High Bay at 5000K and MID lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

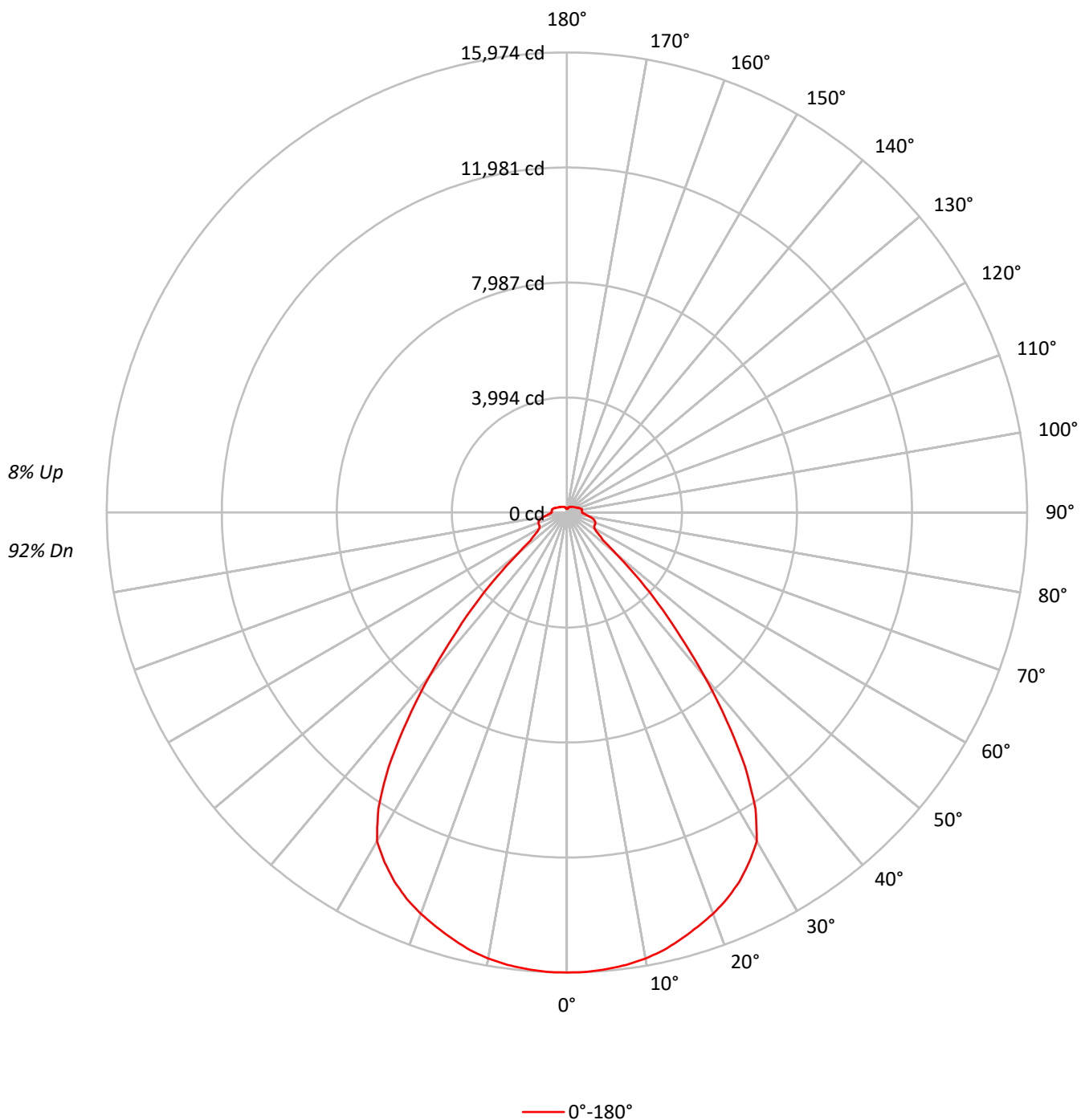
Lumens per Lamp: N/A
Luminaire Lumens: 28808.0 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.13
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

Input Watts (W): 191
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 5.15
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	117	117	117	117	113	113	113	113	107	107	107		100	100	100		95
1	109	105	101	98	105	102	98	96	96	93	91		91	89	87		86
2	101	94	89	84	98	92	87	83	87	83	79		83	80	77		79
3	94	86	79	74	91	83	77	73	80	74	70		76	72	68		72
4	88	78	71	65	85	76	70	64	73	67	63		70	65	61		67
5	82	71	64	58	80	70	63	58	67	61	57		64	59	55		62
6	77	66	58	53	75	64	57	52	62	56	51		60	54	50		57
7	72	61	53	48	70	59	52	47	57	51	47		55	50	46		53
8	68	56	49	44	66	55	48	43	53	47	43		51	46	42		50
9	64	52	45	40	62	51	44	40	50	43	39		48	43	39		47
10	60	48	42	37	59	48	41	37	46	40	36		45	40	36		44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	101034
5°	97372
10°	93860
15°	89982
20°	86242
25°	82171
30°	77047
35°	63920
40°	44948
45°	28032
50°	14263
55°	9378
60°	7976
65°	8207
70°	8894
75°	9088
80°	8417
85°	7643

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 28032 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1513.4	5.3
10°-20°	4327.7	15.0
20°-30°	6501.4	22.6
30°-40°	6583.7	22.9
40°-50°	3503.5	12.2
50°-60°	1295.1	4.5
60°-70°	1058.0	3.7
70°-80°	1007.7	3.5
80°-90°	696.9	2.4
90°-100°	576.9	2.0
100°-110°	527.0	1.8
110°-120°	396.0	1.4
120°-130°	290.7	1.0
130°-140°	217.2	0.8
140°-150°	153.6	0.5
150°-160°	97.6	0.3
160°-170°	48.7	0.2
170°-180°	12.7	0.0
0°-30°	12342.6	42.8
0°-40°	18926.3	65.7
0°-60°	23724.8	82.4
0°-90°	26487.5	91.9
90°-120°	1499.9	5.2
90°-150°	2161.5	7.5
90°-180°	2321.0	8.1
0°-180°	28808.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15974	
5°	15916	###
15°	15334	4328
25°	14149	6501
35°	10785	6584
45°	4489	3504
55°	1376	1295
65°	1057	1058
75°	972	1008
85°	626	548
90°	527	293
95°	530	433
105°	502	527
115°	397	396
125°	321	291
135°	280	217
145°	243	154
155°	211	98
165°	170	49
175°	128	13
180°	126	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	15973.6
2.5°	15966.7
5°	15916.3
7.5°	15840.6
10°	15728.3
12.5°	15558.6
15°	15333.9
17.5°	15084.0
20°	14829.5
22.5°	14522.3
25°	14148.6
27.5°	13699.2
30°	13183.3
32.5°	12181.4
35°	10785.1
37.5°	9113.7
40°	7419.3
42.5°	5821.3
45°	4489.2
47.5°	3260.3
50°	2196.5
52.5°	1584.3
55°	1375.7
57.5°	1201.4
60°	1102.8
62.5°	1070.7
65°	1057.0
67.5°	1059.3
70°	1052.4
72.5°	1027.2
75°	972.1
77.5°	889.6
80°	797.9
82.5°	706.2
85°	625.9
87.5°	561.7
90°	527.3
92.5°	525.0
95°	529.6
97.5°	531.9
100°	529.6
102.5°	520.5
105°	502.1
107.5°	479.2
110°	449.4



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	421.9
115°	396.6
117.5°	373.7
120°	353.1
122.5°	337.0
125°	321.0
127.5°	309.5
130°	300.4
132.5°	288.9
135°	279.7
137.5°	270.5
140°	261.4
142.5°	252.2
145°	243.0
147.5°	236.2
150°	227.0
152.5°	220.1
155°	210.9
157.5°	199.5
160°	190.3
162.5°	181.1
165°	169.7
167.5°	160.5
170°	144.4
172.5°	130.7
175°	128.4
177.5°	128.4
180°	126.1

(END OF REPORT)