

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: P980704

Luminaire Tested: UHBS2-2436-M-L83065-MID-6500K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980704
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-6500K-FRR6
Description: UHBS2 LED High Bay at 6500K and MID lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

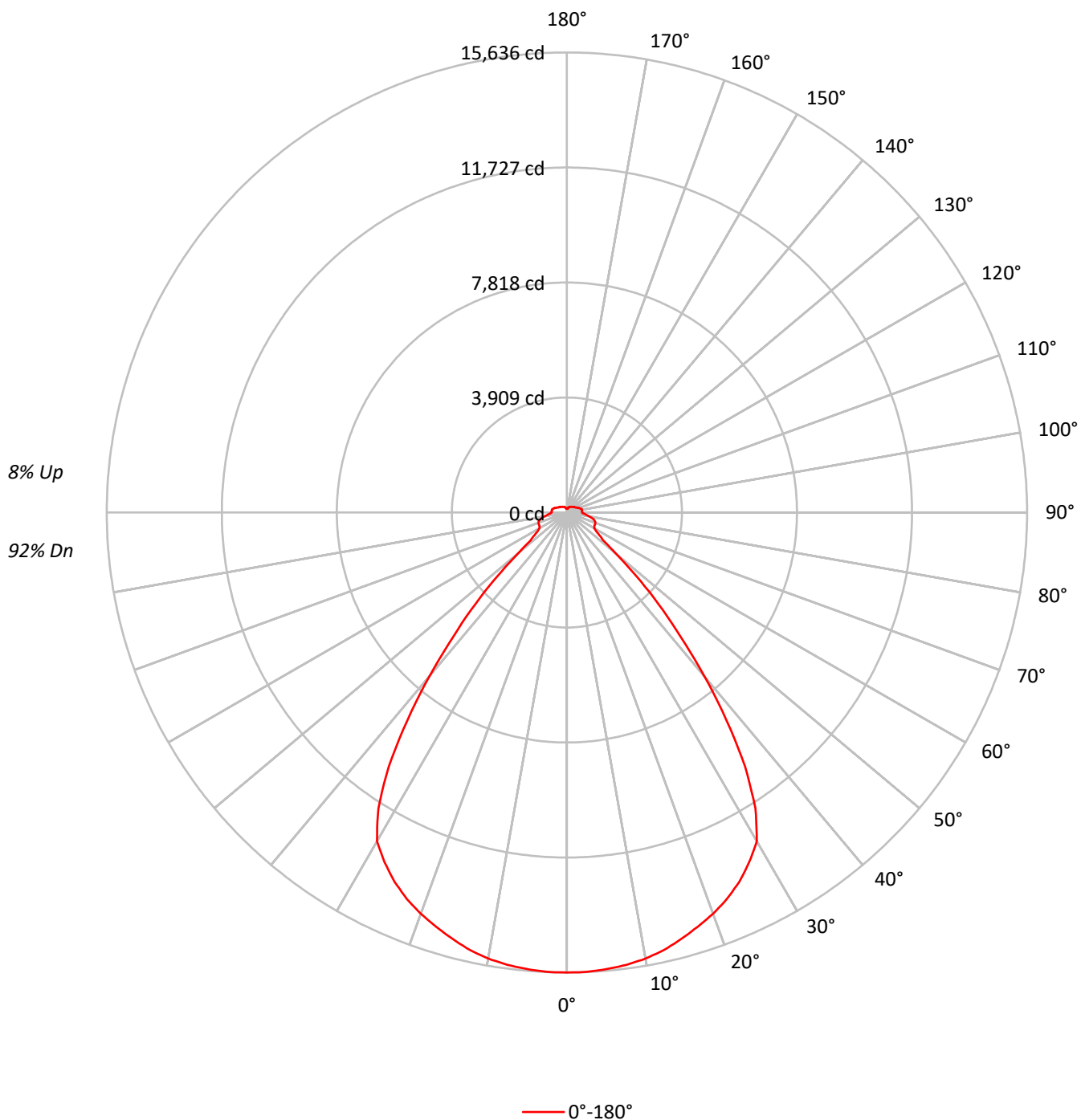
Lumens per Lamp: N/A
Luminaire Lumens: 28199.0 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.13
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

Input Watts (W): 195
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	30	10
RCR																	
0	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95
1	109	105	101	98	105	102	98	96	96	93	91	91	89	87	86	85	83
2	101	94	89	84	98	92	87	83	87	83	79	83	80	77	79	76	74
3	94	86	79	74	91	83	77	73	80	74	70	76	72	68	72	69	66
4	88	78	71	65	85	76	70	64	73	67	63	70	65	61	67	63	60
5	82	71	64	58	80	70	63	58	67	61	57	64	59	55	62	57	54
6	77	66	58	53	75	64	57	52	62	56	51	60	54	50	57	53	49
7	72	61	53	48	70	59	52	47	57	51	47	55	50	46	53	49	45
8	68	56	49	44	66	55	48	43	53	47	43	51	46	42	50	45	41
9	64	52	45	40	62	51	44	40	50	43	39	48	43	39	47	42	38
10	60	48	42	37	59	48	41	37	46	40	36	45	40	36	44	39	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	98898
5°	95313
10°	91875
15°	88080
20°	84419
25°	80434
30°	75418
35°	62569
40°	43998
45°	27440
50°	13961
55°	9180
60°	7807
65°	8033
70°	8706
75°	8896
80°	8239
85°	7481

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 27440 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1481.5	5.3
10°-20°	4236.2	15.0
20°-30°	6364.0	22.6
30°-40°	6444.5	22.9
40°-50°	3429.4	12.2
50°-60°	1267.7	4.5
60°-70°	1035.6	3.7
70°-80°	986.4	3.5
80°-90°	682.2	2.4
90°-100°	564.7	2.0
100°-110°	515.8	1.8
110°-120°	387.7	1.4
120°-130°	284.6	1.0
130°-140°	212.7	0.8
140°-150°	150.4	0.5
150°-160°	95.6	0.3
160°-170°	47.7	0.2
170°-180°	12.4	0.0
0°-30°	12081.6	42.8
0°-40°	18526.2	65.7
0°-60°	23223.3	82.4
0°-90°	25927.5	91.9
90°-120°	1468.2	5.2
90°-150°	2115.8	7.5
90°-180°	2272.0	8.1
0°-180°	28199.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15636	
5°	15580	###
15°	15010	4236
25°	13850	6364
35°	10557	6445
45°	4394	3429
55°	1347	1268
65°	1035	1036
75°	952	986
85°	613	536
90°	516	287
95°	518	424
105°	492	516
115°	388	388
125°	314	285
135°	274	213
145°	238	150
155°	206	96
165°	166	48
175°	126	12
180°	123	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	15635.9
2.5°	15629.2
5°	15579.8
7.5°	15505.8
10°	15395.8
12.5°	15229.7
15°	15009.8
17.5°	14765.1
20°	14516.0
22.5°	14215.3
25°	13849.5
27.5°	13409.6
30°	12904.6
32.5°	11923.9
35°	10557.1
37.5°	8921.0
40°	7262.5
42.5°	5698.2
45°	4394.3
47.5°	3191.4
50°	2150.0
52.5°	1550.8
55°	1346.6
57.5°	1176.0
60°	1079.5
62.5°	1048.1
65°	1034.6
67.5°	1036.9
70°	1030.1
72.5°	1005.4
75°	951.6
77.5°	870.8
80°	781.0
82.5°	691.2
85°	612.7
87.5°	549.8
90°	516.2
92.5°	513.9
95°	518.4
97.5°	520.7
100°	518.4
102.5°	509.5
105°	491.5
107.5°	469.1
110°	439.9



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	412.9
115°	388.3
117.5°	365.8
120°	345.6
122.5°	329.9
125°	314.2
127.5°	303.0
130°	294.0
132.5°	282.8
135°	273.8
137.5°	264.8
140°	255.8
142.5°	246.9
145°	237.9
147.5°	231.2
150°	222.2
152.5°	215.5
155°	206.5
157.5°	195.3
160°	186.3
162.5°	177.3
165°	166.1
167.5°	157.1
170°	141.4
172.5°	127.9
175°	125.7
177.5°	125.7
180°	123.4

(END OF REPORT)