

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P1504751

Luminaire Tested: PRLX-UHBS2-1218-MV-L8C5-U-B-04-WHGL-PS (6500K_L18_Narrow_120V)

Issue Date: 7/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1504751
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2602-677-34)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/31/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-UHBS2-1218-MV-L8C5-U-B-04-WHGL-PS (6500K_L18_Narrow_120V)
Description: Pentalux UHBS2 4-INCH SELECTABLE HIGH BAY 1218 LIGHT ENGINE, CONIC WHITE SHADE, NARROW DISTRIBUTION
LIGHT LEVEL 1 - 18,000 LUMENS
Light Source: 6500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

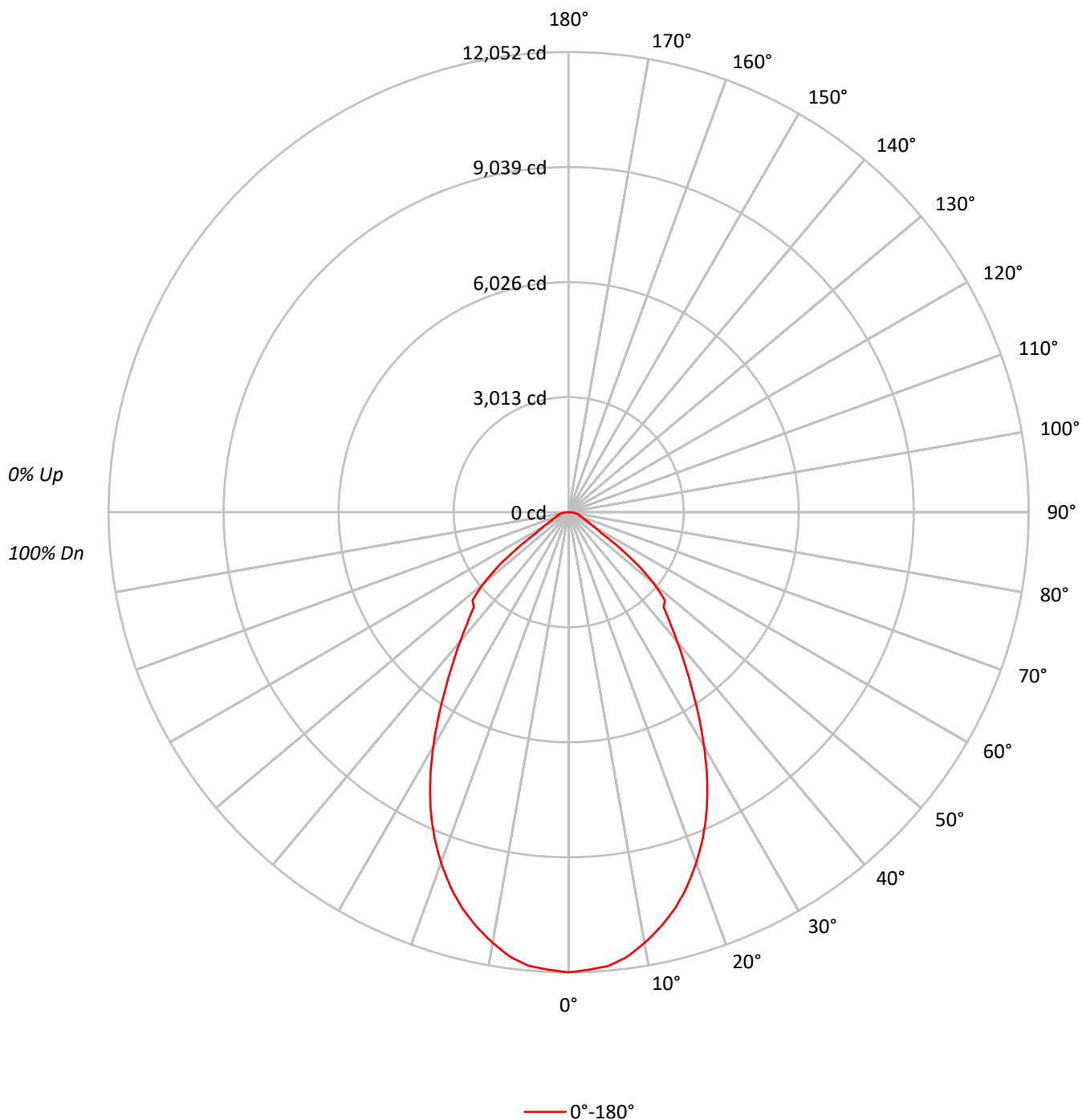
Lumens per Lamp: N/A
Luminaire Lumens: 16790.5 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Spacing Criteria (0/90/45): 0.97 / 0.97 / 1
Luminous Opening: Circular (Dia: 1.26' x H: 0')
CIE Type: Direct

Input Watts (W): 123.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
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	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92	90		
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80		
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72		
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64		
5	85	75	67	62	83	74	67	62	72	66	61	70	65	60	68	64	60	58		
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53		
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41		
10	63	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	104320
5°	103617
10°	100650
15°	96310
20°	90020
25°	81797
30°	70899
35°	59325
40°	49917
45°	43064
50°	39428
55°	24306
60°	13667
65°	9898
70°	8579
75°	9494
80°	10702
85°	11063

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 43795 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1123.3	6.7
10°-20°	3007.5	17.9
20°-30°	3903.7	23.2
30°-40°	3530.7	21.0
40°-50°	2799.2	16.7
50°-60°	1501.7	8.9
60°-70°	508.6	3.0
70°-80°	296.2	1.8
80°-90°	119.5	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	8034.5	47.9
0°-40°	11565.2	68.9
0°-60°	15866.1	94.5
0°-90°	16790.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16790.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12052	
5°	11926	###
15°	10748	3008
25°	8565	3904
35°	5614	3531
45°	3518	2799
55°	1611	1502
65°	483	509
75°	284	296
85°	111	120
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	12052.5
2.5°	11996.2
5°	11925.8
7.5°	11745.1
10°	11451.9
12.5°	11126.9
15°	10748.0
17.5°	10292.8
20°	9773.2
22.5°	9201.8
25°	8564.9
27.5°	7849.3
30°	7093.8
32.5°	6343.0
35°	5614.5
37.5°	4978.7
40°	4417.9
42.5°	3919.3
45°	3518.1
47.5°	3418.4
50°	2928.1
52.5°	2314.5
55°	1610.7
57.5°	1000.7
60°	789.5
62.5°	620.6
65°	483.3
67.5°	393.0
70°	339.0
72.5°	306.2
75°	283.9
77.5°	254.6
80°	214.7
82.5°	165.4
85°	111.4
87.5°	55.1
90°	0.0

(END OF REPORT)