

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: PrentaLux

Report Number: P709444

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-CLER(4000K\_L12\_277V)

Issue Date: 8/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P709444  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-038-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-UHBS-1218-MV-L84050-CLER(4000K\_L12\_277V)  
Description: PRENATALUX HIGH BAY LUMINAIRE WITH CLEAR SHADE  
LIGHT LEVEL - 12,0000 NOMINAL LUMENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

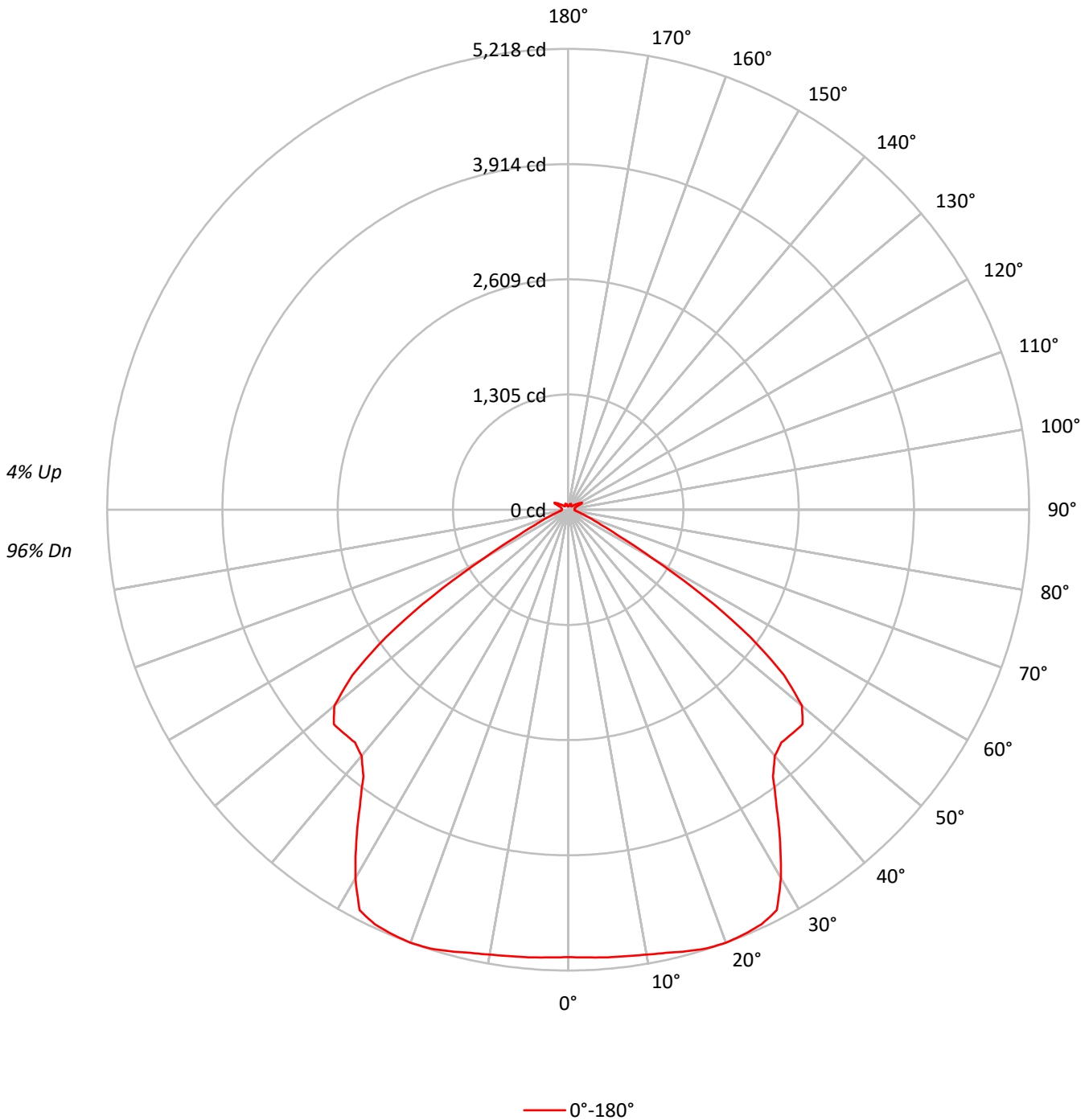
Lumens per Lamp: N/A  
Luminaire Lumens: 13135.5 lumens  
Efficiency: N/A  
Efficacy: 165.0 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.41  
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 79.6  
Input Voltage (V): 277  
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	110	106	103	100	107	103	100	98	99	96	94	94	92	90	90	88	87	85
2	102	95	89	84	99	93	87	83	88	84	80	85	81	78	81	78	76	74
3	94	85	78	72	91	83	76	71	79	74	69	76	72	68	73	69	66	64
4	86	76	68	62	84	74	67	62	71	65	60	69	63	59	66	62	58	56
5	80	68	60	54	78	67	59	54	64	58	53	62	56	52	60	55	51	49
6	74	62	54	48	72	61	53	47	59	52	47	57	51	46	55	49	45	43
7	69	56	48	42	67	55	48	42	53	47	42	52	46	41	50	45	40	39
8	64	51	43	38	62	50	43	38	49	42	37	47	41	37	46	40	36	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	42	37	33	31
10	56	44	36	31	55	43	36	31	42	35	31	40	34	30	39	34	30	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	37863
5°	35158
10°	33098
15°	31730
20°	30594
25°	29322
30°	26548
35°	22256
40°	19484
45°	19142
50°	18530
55°	13703
60°	6111
65°	2446
70°	1398
75°	865
80°	636
85°	546

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 19236 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	486.4	3.7
10°-20°	1468.1	11.2
20°-30°	2369.4	18.0
30°-40°	2593.6	19.7
40°-50°	2768.2	21.1
50°-60°	2154.7	16.4
60°-70°	508.9	3.9
70°-80°	157.8	1.2
80°-90°	87.1	0.7
90°-100°	79.2	0.6
100°-110°	87.4	0.7
110°-120°	145.1	1.1
120°-130°	95.9	0.7
130°-140°	45.7	0.3
140°-150°	35.8	0.3
150°-160°	32.6	0.2
160°-170°	15.7	0.1
170°-180°	3.9	0.0
0°-30°	4323.9	32.9
0°-40°	6917.5	52.7
0°-60°	11840.4	90.1
0°-90°	12594.2	95.9
90°-120°	311.6	2.4
90°-150°	489.1	3.7
90°-180°	541.0	4.1
0°-180°	13135.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5066	
5°	5088	486
15°	5177	1468
25°	5180	2369
35°	4112	2594
45°	3585	2768
55°	2523	2155
65°	429	509
75°	139	158
85°	78	67
90°	70	39
95°	73	60
105°	81	87
115°	165	145
125°	104	96
135°	56	46
145°	56	36
155°	73	33
165°	53	16
175°	39	4
180°	39	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5066.2
2.5°	5075.3
5°	5087.9
7.5°	5099.5
10°	5114.5
12.5°	5139.6
15°	5177.1
17.5°	5208.9
20°	5218.0
22.5°	5203.9
25°	5179.7
27.5°	5112.1
30°	4815.8
32.5°	4465.3
35°	4112.3
37.5°	3806.1
40°	3638.4
42.5°	3574.1
45°	3584.9
47.5°	3597.5
50°	3453.9
52.5°	3078.4
55°	2522.6
57.5°	1820.0
60°	1102.3
62.5°	660.9
65°	428.9
67.5°	312.1
70°	236.1
72.5°	178.6
75°	139.4
77.5°	114.3
80°	96.8
82.5°	85.1
85°	77.6
87.5°	73.4
90°	70.1
92.5°	71.8
95°	72.6
97.5°	73.4
100°	75.1
102.5°	79.3
105°	81.0
107.5°	84.3
110°	96.8

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	125.2
115°	165.3
117.5°	174.4
120°	146.0
122.5°	122.7
125°	104.3
127.5°	87.7
130°	74.2
132.5°	63.4
135°	55.9
137.5°	52.6
140°	51.7
142.5°	53.4
145°	55.9
147.5°	60.9
150°	66.7
152.5°	71.0
155°	72.6
157.5°	71.0
160°	66.7
162.5°	60.9
165°	53.4
167.5°	47.6
170°	43.4
172.5°	40.9
175°	39.2
177.5°	39.2
180°	39.2

(END OF REPORT)