

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: P709446

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-CLER(4000K\_L18\_277V)

Issue Date: 8/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P709446  
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: PrentaLux  
Catalog Number: PRLX-UHBS-1218-MV-L84050-CLER(4000K\_L18\_277V)  
Description: PRENTALUX HIGH BAY LUMINAIRE WITH CLEAR SHADE  
LIGHT LEVEL - 18,000 NOMINAL LUMENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

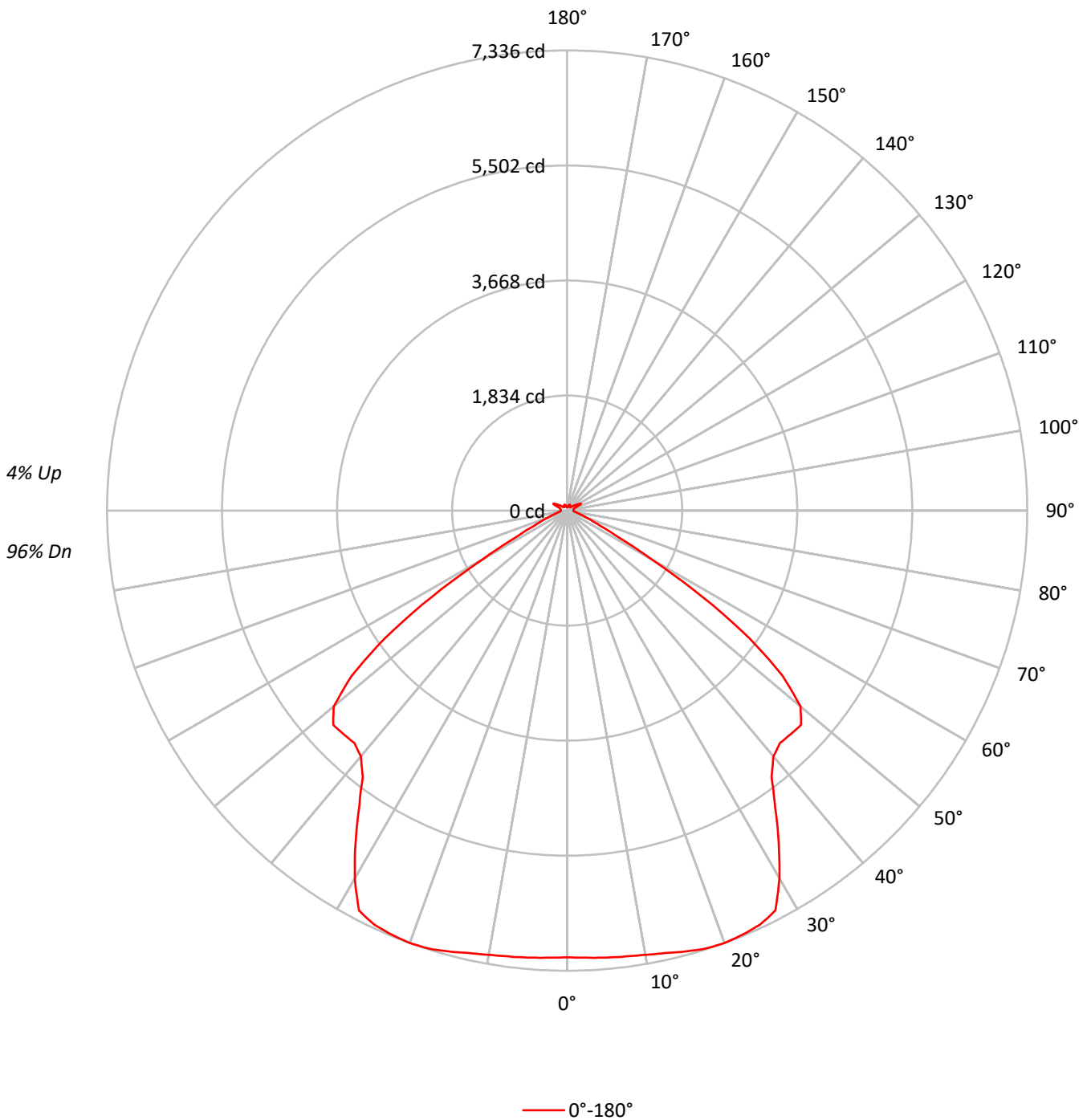
Lumens per Lamp: N/A  
Luminaire Lumens: 18467.7 lumens  
Efficiency: N/A  
Efficacy: 154.3 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.41  
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 119.7  
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°	53233
5°	49429
10°	46534
15°	44611
20°	43014
25°	41224
30°	37324
35°	31291
40°	27393
45°	26913
50°	26052
55°	19266
60°	8592
65°	3440
70°	1966
75°	1216
80°	894
85°	768

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 27045 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	683.9	3.7
10°-20°	2064.0	11.2
20°-30°	3331.2	18.0
30°-40°	3646.4	19.7
40°-50°	3891.9	21.1
50°-60°	3029.5	16.4
60°-70°	715.5	3.9
70°-80°	221.9	1.2
80°-90°	122.6	0.7
90°-100°	111.4	0.6
100°-110°	122.8	0.7
110°-120°	203.9	1.1
120°-130°	134.8	0.7
130°-140°	64.3	0.3
140°-150°	50.4	0.3
150°-160°	45.8	0.2
160°-170°	22.1	0.1
170°-180°	5.5	0.0
0°-30°	6079.0	32.9
0°-40°	9725.5	52.7
0°-60°	16646.8	90.1
0°-90°	17706.8	95.9
90°-120°	438.1	2.4
90°-150°	687.6	3.7
90°-180°	761.0	4.1
0°-180°	18467.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7123	
5°	7153	684
15°	7279	2064
25°	7282	3331
35°	5782	3646
45°	5040	3892
55°	3547	3029
65°	603	715
75°	196	222
85°	109	95
90°	98	55
95°	102	84
105°	114	123
115°	232	204
125°	147	135
135°	79	64
145°	79	50
155°	102	46
165°	75	22
175°	55	5
180°	55	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7122.7
2.5°	7135.5
5°	7153.1
7.5°	7169.5
10°	7190.7
12.5°	7225.9
15°	7278.7
17.5°	7323.3
20°	7336.2
22.5°	7316.2
25°	7282.2
27.5°	7187.1
30°	6770.6
32.5°	6278.0
35°	5781.6
37.5°	5351.1
40°	5115.3
42.5°	5024.9
45°	5040.2
47.5°	5057.8
50°	4856.0
52.5°	4328.0
55°	3546.7
57.5°	2558.8
60°	1549.9
62.5°	929.2
65°	603.1
67.5°	438.8
70°	332.0
72.5°	251.1
75°	196.0
77.5°	160.8
80°	136.1
82.5°	119.7
85°	109.2
87.5°	103.3
90°	98.5
92.5°	100.9
95°	102.1
97.5°	103.3
100°	105.6
102.5°	111.5
105°	113.8
107.5°	118.5
110°	136.1

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	176.0
115°	232.3
117.5°	245.2
120°	205.3
122.5°	172.5
125°	146.7
127.5°	123.2
130°	104.4
132.5°	89.1
135°	78.6
137.5°	74.0
140°	72.7
142.5°	75.1
145°	78.6
147.5°	85.7
150°	93.9
152.5°	99.7
155°	102.1
157.5°	99.7
160°	93.9
162.5°	85.7
165°	75.1
167.5°	66.9
170°	61.0
172.5°	57.5
175°	55.1
177.5°	55.1
180°	55.1

(END OF REPORT)