

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: P709461

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-TRWH(5000K\_L18\_277V)

Issue Date: 8/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P709461  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-038-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-UHBS-1218-MV-L84050-TRWH(5000K\_L18\_277V)  
Description: PRENATALUX HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE  
LIGHT LEVEL - 18,000 NOMINAL LUMENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

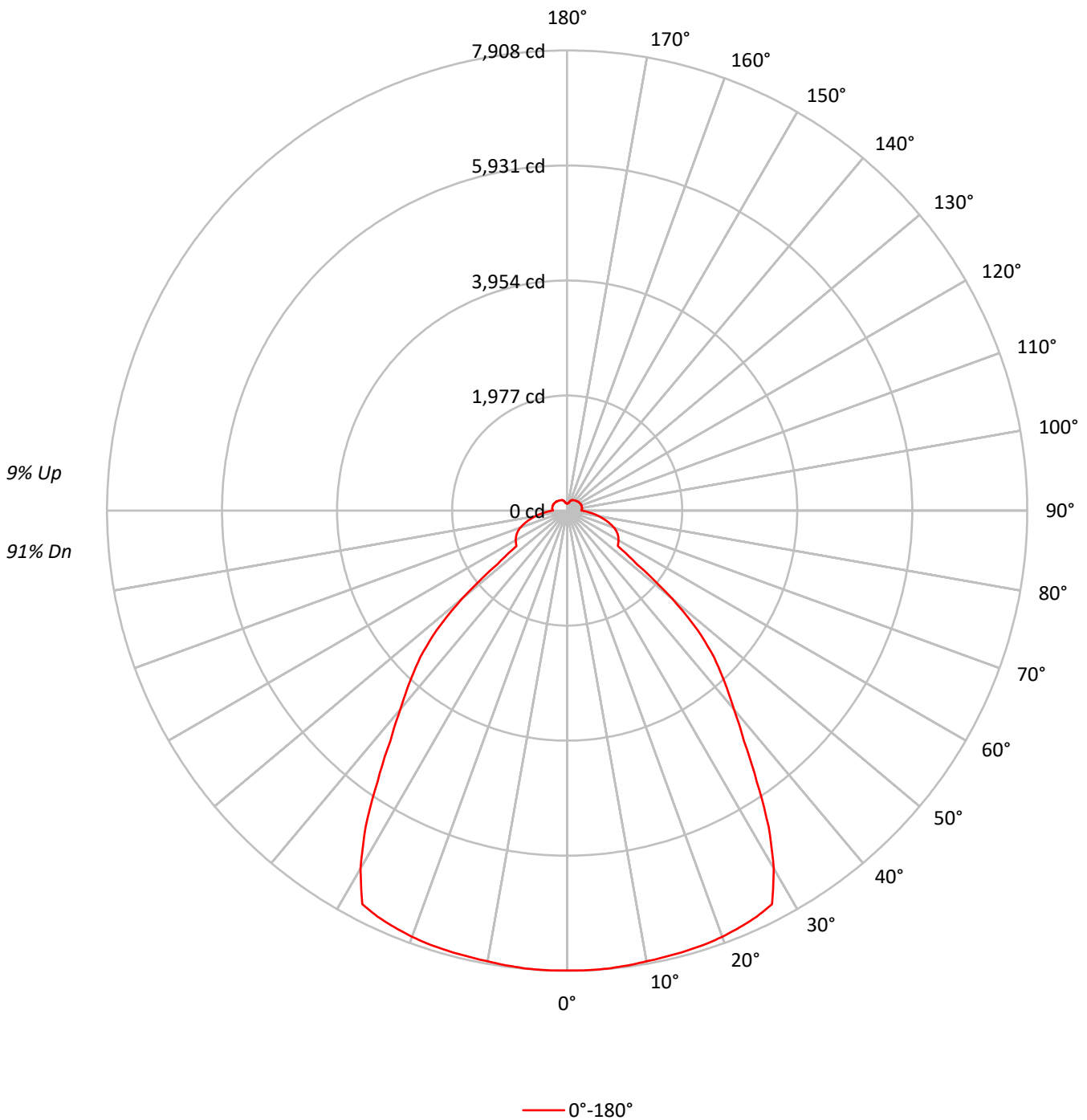
Lumens per Lamp: N/A  
Luminaire Lumens: 17554.0 lumens  
Efficiency: N/A  
Efficacy: 145.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.19  
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 120.3  
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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	108	104	100	97	104	101	97	94	95	92	90	90	88	85	85	83	82	79
2	100	93	87	82	97	90	85	80	85	81	77	81	77	74	77	74	71	69
3	92	83	76	71	89	81	75	69	77	72	67	73	69	65	70	66	63	61
4	86	75	68	62	83	73	66	61	70	64	59	67	62	58	64	59	56	54
5	80	68	60	55	77	67	59	54	64	58	53	61	56	51	58	54	50	48
6	74	62	55	49	72	61	54	48	59	52	47	56	51	46	54	49	45	43
7	69	57	49	44	67	56	49	44	54	47	43	52	46	42	50	45	41	39
8	65	53	45	40	63	52	44	39	50	43	39	48	42	38	46	41	37	36
9	61	49	41	36	59	48	41	36	46	40	35	45	39	35	43	38	34	32
10	57	45	38	33	56	44	38	33	43	37	32	42	36	32	40	35	31	30

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

	0°
0°	59063
5°	54601
10°	50903
15°	48049
20°	45700
25°	43604
30°	39156
35°	30740
40°	23880
45°	19075
50°	12655
55°	5776
60°	5657
65°	5459
70°	5074
75°	4407
80°	3615
85°	2774

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19075 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	753.0	4.3
10°-20°	2220.4	12.6
20°-30°	3525.7	20.1
30°-40°	3563.1	20.3
40°-50°	2696.3	15.4
50°-60°	1180.1	6.7
60°-70°	942.4	5.4
70°-80°	747.4	4.3
80°-90°	431.1	2.5
90°-100°	277.7	1.6
100°-110°	276.3	1.6
110°-120°	256.2	1.5
120°-130°	221.8	1.3
130°-140°	179.5	1.0
140°-150°	135.0	0.8
150°-160°	91.2	0.5
160°-170°	44.7	0.3
170°-180°	12.2	0.1
0°-30°	6499.1	37.0
0°-40°	10062.2	57.3
0°-60°	13938.6	79.4
0°-90°	16059.5	91.5
90°-120°	810.2	4.6
90°-150°	1346.5	7.7
90°-180°	1494.0	8.5
0°-180°	17554.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7903	
5°	7902	753
15°	7840	2220
25°	7703	3526
35°	5680	3563
45°	3572	2696
55°	1063	1180
65°	957	942
75°	710	747
85°	394	354
90°	243	145
95°	256	210
105°	262	276
115°	259	256
125°	248	222
135°	231	179
145°	215	135
155°	198	91
165°	151	45
175°	124	12
180°	119	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7902.8
2.5°	7907.5
5°	7901.6
7.5°	7886.1
10°	7865.9
12.5°	7852.7
15°	7839.7
17.5°	7823.0
20°	7794.3
22.5°	7752.6
25°	7702.6
27.5°	7625.1
30°	7103.0
32.5°	6443.8
35°	5679.8
37.5°	4996.8
40°	4459.2
42.5°	4008.6
45°	3572.4
47.5°	3046.7
50°	2358.9
52.5°	1512.6
55°	1063.3
57.5°	1041.8
60°	1020.4
62.5°	991.7
65°	957.1
67.5°	914.2
70°	857.1
72.5°	785.6
75°	710.4
77.5°	630.6
80°	550.6
82.5°	473.3
85°	394.5
87.5°	317.1
90°	243.2
92.5°	251.5
95°	256.3
97.5°	258.7
100°	259.9
102.5°	261.0
105°	262.2
107.5°	261.0
110°	261.0

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	259.9
115°	258.7
117.5°	256.3
120°	253.9
122.5°	250.3
125°	248.0
127.5°	243.2
130°	239.6
132.5°	236.0
135°	231.3
137.5°	227.6
140°	222.9
142.5°	219.3
145°	214.6
147.5°	209.8
150°	206.2
152.5°	202.6
155°	197.9
157.5°	190.7
160°	182.4
162.5°	170.5
165°	151.3
167.5°	139.5
170°	133.5
172.5°	128.7
175°	123.9
177.5°	121.6
180°	119.2

(END OF REPORT)