

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: P701297

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-WHTE(4000K_L18_120V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P701297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-038-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-UHBS-1218-MV-L84050-WHTE(4000K_L18_120V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH WHITE SHADE
LIGHT LEVEL - 18,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

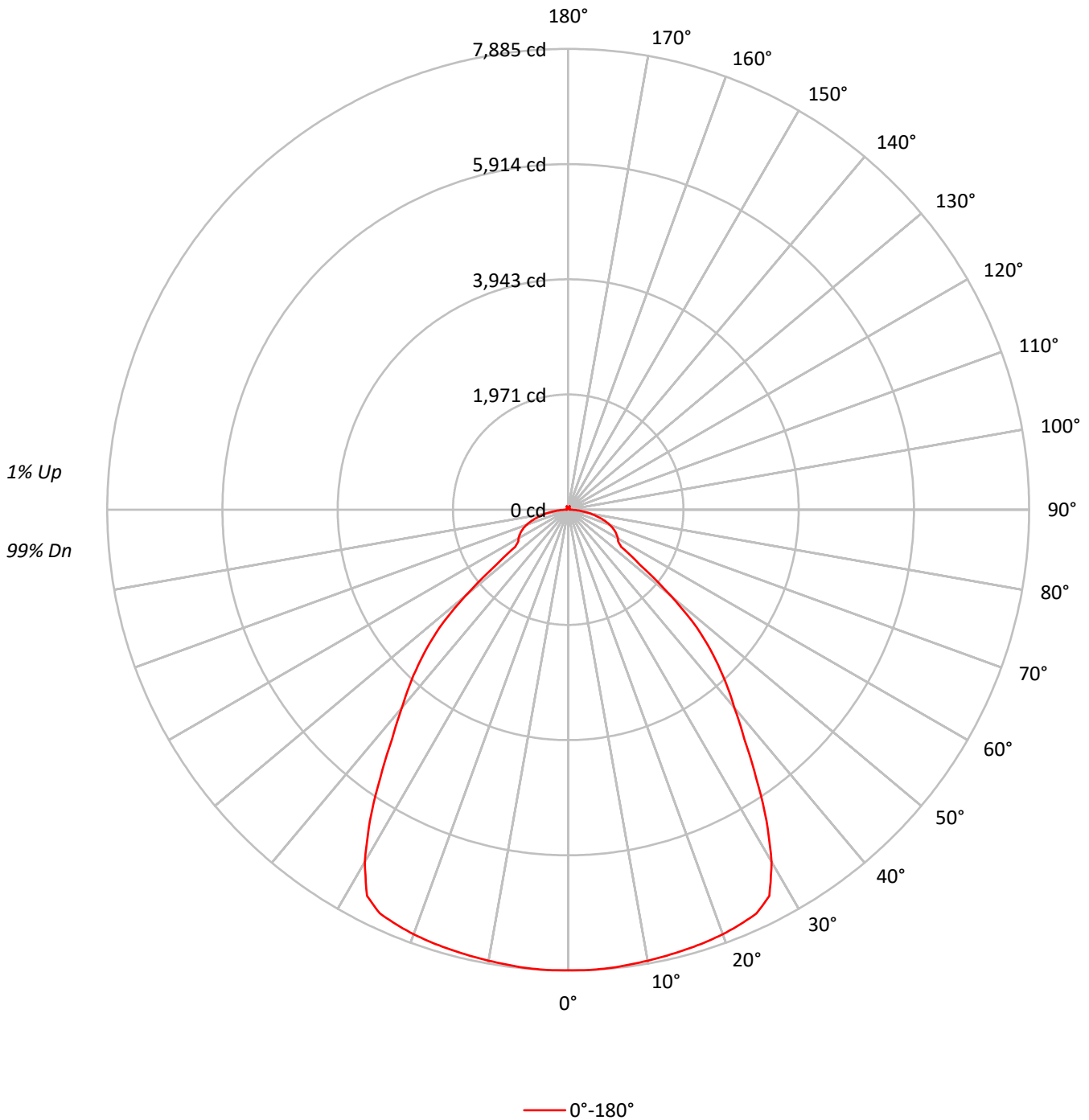
Lumens per Lamp: N/A
Luminaire Lumens: 15669.1 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.19
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 117.8
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	0
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	110	110	110	105	105	105	101	101	101	99
1	110	106	103	100	108	104	101	98	100	97	95	96	93	92	92	90	89	87
2	102	95	90	85	100	93	88	84	90	85	82	86	83	80	83	80	78	76
3	95	86	79	74	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	78	70	65	86	77	70	64	74	68	63	72	66	62	69	65	61	59
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53
6	77	65	57	51	75	64	57	51	62	56	51	60	55	50	59	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	45	54	49	45	43
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	50	45	41	39
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	58903
5°	54429
10°	50703
15°	47750
20°	45326
25°	43145
30°	38352
35°	30359
40°	23693
45°	18713
50°	12307
55°	5997
60°	5432
65°	5067
70°	4476
75°	3604
80°	2559
85°	1411

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18713 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	750.4	4.8
10°-20°	2206.3	14.1
20°-30°	3474.1	22.2
30°-40°	3512.0	22.4
40°-50°	2655.4	16.9
50°-60°	1178.8	7.5
60°-70°	873.0	5.6
70°-80°	610.2	3.9
80°-90°	220.3	1.4
90°-100°	24.4	0.2
100°-110°	24.5	0.2
110°-120°	23.8	0.2
120°-130°	23.6	0.2
130°-140°	26.0	0.2
140°-150°	27.3	0.2
150°-160°	26.4	0.2
160°-170°	10.7	0.1
170°-180°	2.0	0.0
0°-30°	6430.8	41.0
0°-40°	9942.8	63.5
0°-60°	13777.0	87.9
0°-90°	15480.5	98.8
90°-120°	72.7	0.5
90°-150°	149.5	1.0
90°-180°	189.0	1.2
0°-180°	15669.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7881	
5°	7877	750
15°	7791	2206
25°	7622	3474
35°	5610	3512
45°	3505	2655
55°	1104	1179
65°	888	873
75°	581	610
85°	201	202
90°	23	24
95°	22	18
105°	23	25
115°	24	24
125°	26	24
135°	34	26
145°	43	27
155°	59	26
165°	30	11
175°	21	2
180°	21	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	7881.3
2.5°	7884.8
5°	7876.7
7.5°	7857.0
10°	7835.0
12.5°	7814.1
15°	7790.9
17.5°	7765.4
20°	7730.6
22.5°	7681.9
25°	7621.6
27.5°	7451.1
30°	6957.1
32.5°	6313.4
35°	5609.5
37.5°	4951.9
40°	4424.3
42.5°	3973.1
45°	3504.6
47.5°	2990.9
50°	2293.9
52.5°	1548.2
55°	1104.0
57.5°	1013.6
60°	979.9
62.5°	938.2
65°	888.3
67.5°	829.2
70°	756.1
72.5°	672.6
75°	581.0
77.5°	485.9
80°	389.7
82.5°	294.6
85°	200.6
87.5°	107.9
90°	23.2
92.5°	20.9
95°	22.0
97.5°	23.2
100°	23.2
102.5°	23.2
105°	23.2
107.5°	23.2
110°	23.2

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	23.2
115°	24.4
117.5°	24.4
120°	24.4
122.5°	25.5
125°	25.5
127.5°	27.8
130°	29.0
132.5°	31.3
135°	33.6
137.5°	36.0
140°	38.3
142.5°	40.6
145°	42.9
147.5°	46.4
150°	51.0
152.5°	55.7
155°	59.1
157.5°	60.3
160°	56.8
162.5°	49.9
165°	30.2
167.5°	22.0
170°	22.0
172.5°	20.9
175°	20.9
177.5°	20.9
180°	20.9

(END OF REPORT)