

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: P709476

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-WHTE(4000K_L18_347V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709476
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: PrentaLux
Catalog Number: PRLX-UHBS-1218-MV-L84050-WHTE(4000K_L18_347V)
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

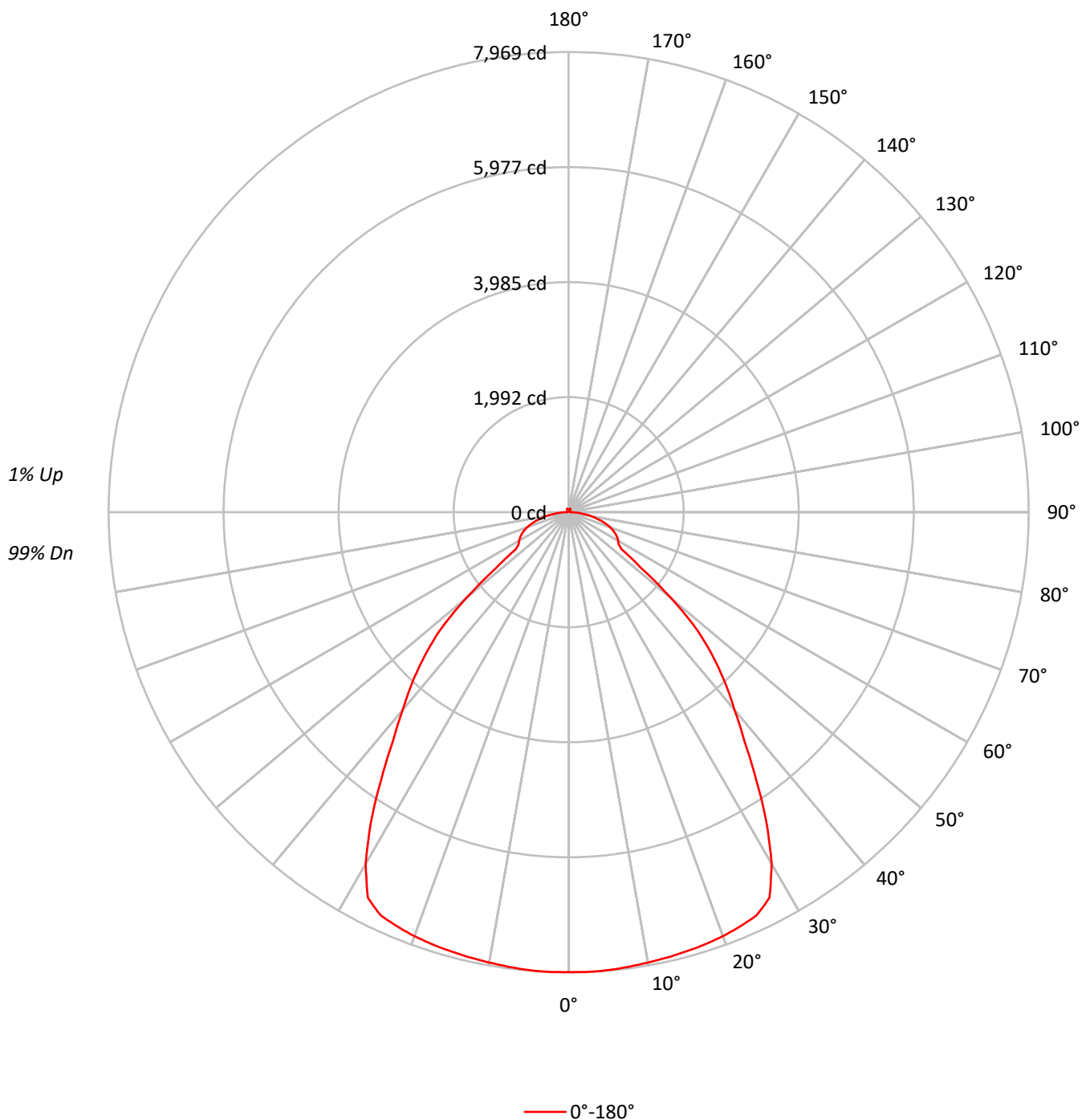
Lumens per Lamp: N/A
Luminaire Lumens: 15837.2 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.19
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 119.7
Input Voltage (V): 347
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
RCR																	
0	119	119	119	119	116	116	116	116	110	110	110		105	105	105		101
1	110	106	103	100	108	104	101	98	100	97	95		96	93	92		92
2	102	95	90	85	100	93	88	84	90	85	82		86	83	80		83
3	95	86	79	74	92	84	78	73	81	76	71		79	74	70		76
4	88	78	70	65	86	77	70	64	74	68	63		72	66	62		69
5	82	71	63	57	80	70	62	57	68	61	56		66	60	56		64
6	77	65	57	51	75	64	57	51	62	56	51		60	55	50		59
7	72	60	52	46	70	59	51	46	57	51	46		56	50	45		54
8	67	55	47	42	66	54	47	42	53	46	42		52	46	41		50
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	59535
5°	55014
10°	51248
15°	48262
20°	45813
25°	43608
30°	38764
35°	30685
40°	23947
45°	18914
50°	12439
55°	6062
60°	5490
65°	5121
70°	4524
75°	3642
80°	2586
85°	1426

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18914 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	758.5	4.8
10°-20°	2229.9	14.1
20°-30°	3511.4	22.2
30°-40°	3549.7	22.4
40°-50°	2683.9	16.9
50°-60°	1191.5	7.5
60°-70°	882.4	5.6
70°-80°	616.7	3.9
80°-90°	222.7	1.4
90°-100°	24.6	0.2
100°-110°	24.8	0.2
110°-120°	24.0	0.2
120°-130°	23.9	0.2
130°-140°	26.2	0.2
140°-150°	27.6	0.2
150°-160°	26.7	0.2
160°-170°	10.8	0.1
170°-180°	2.0	0.0
0°-30°	6499.8	41.0
0°-40°	10049.5	63.5
0°-60°	13924.9	87.9
0°-90°	15646.7	98.8
90°-120°	73.4	0.5
90°-150°	151.0	1.0
90°-180°	190.0	1.2
0°-180°	15837.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7966	
5°	7961	758
15°	7874	2230
25°	7703	3511
35°	5670	3550
45°	3542	2684
55°	1116	1191
65°	898	882
75°	587	617
85°	203	205
90°	23	24
95°	22	18
105°	23	25
115°	25	24
125°	26	24
135°	34	26
145°	43	28
155°	60	27
165°	30	11
175°	21	2
180°	21	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	7965.9
2.5°	7969.4
5°	7961.3
7.5°	7941.3
10°	7919.1
12.5°	7898.0
15°	7874.5
17.5°	7848.8
20°	7813.6
22.5°	7764.4
25°	7703.4
27.5°	7531.1
30°	7031.8
32.5°	6381.2
35°	5669.7
37.5°	5005.1
40°	4471.8
42.5°	4015.7
45°	3542.2
47.5°	3023.0
50°	2318.5
52.5°	1564.8
55°	1115.9
57.5°	1024.5
60°	990.4
62.5°	948.3
65°	897.8
67.5°	838.1
70°	764.2
72.5°	679.8
75°	587.2
77.5°	491.1
80°	393.9
82.5°	297.8
85°	202.8
87.5°	109.1
90°	23.4
92.5°	21.1
95°	22.2
97.5°	23.4
100°	23.4
102.5°	23.4
105°	23.4
107.5°	23.4
110°	23.4

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	23.4
115°	24.7
117.5°	24.7
120°	24.7
122.5°	25.8
125°	25.8
127.5°	28.1
130°	29.3
132.5°	31.6
135°	34.0
137.5°	36.4
140°	38.7
142.5°	41.0
145°	43.4
147.5°	46.9
150°	51.5
152.5°	56.3
155°	59.7
157.5°	60.9
160°	57.4
162.5°	50.4
165°	30.5
167.5°	22.2
170°	22.2
172.5°	21.1
175°	21.1
177.5°	21.1
180°	21.1

(END OF REPORT)