

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: P701310

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-WHTE(5000K_L12_120V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P701310
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: Pentalux
Catalog Number: PRLX-UHBS-1218-MV-L84050-WHTE(5000K_L12_120V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH WHITE SHADE
LIGHT LEVEL - 12,0000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

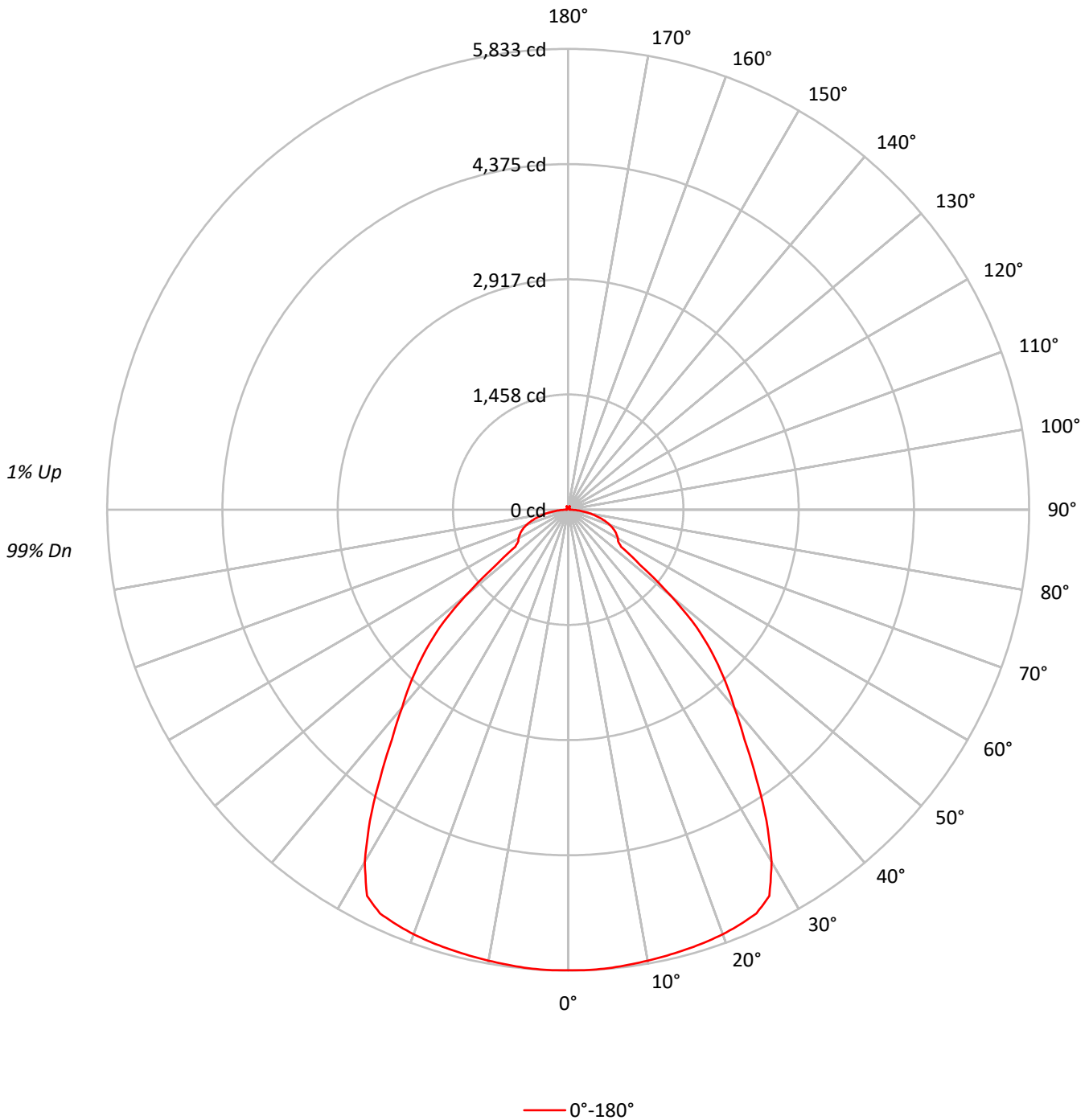
Lumens per Lamp: N/A
Luminaire Lumens: 11591.0 lumens
Efficiency: N/A
Efficacy: 144.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.19
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 80
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°	43572
5°	40263
10°	37507
15°	35322
20°	33530
25°	31916
30°	28370
35°	22458
40°	17526
45°	13843
50°	9104
55°	4436
60°	4018
65°	3748
70°	3311
75°	2666
80°	1892
85°	1044

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13843 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.1	4.8
10°-20°	1632.0	14.1
20°-30°	2569.9	22.2
30°-40°	2597.9	22.4
40°-50°	1964.3	16.9
50°-60°	872.0	7.5
60°-70°	645.8	5.6
70°-80°	451.3	3.9
80°-90°	163.0	1.4
90°-100°	18.0	0.2
100°-110°	18.2	0.2
110°-120°	17.6	0.2
120°-130°	17.5	0.2
130°-140°	19.2	0.2
140°-150°	20.1	0.2
150°-160°	19.5	0.2
160°-170°	7.9	0.1
170°-180°	1.5	0.0
0°-30°	4757.1	41.0
0°-40°	7355.0	63.5
0°-60°	10191.4	87.9
0°-90°	11451.5	98.8
90°-120°	53.8	0.5
90°-150°	110.6	1.0
90°-180°	140.0	1.2
0°-180°	11591.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5830	
5°	5827	555
15°	5763	1632
25°	5638	2570
35°	4150	2598
45°	2592	1964
55°	817	872
65°	657	646
75°	430	451
85°	148	150
90°	17	18
95°	16	14
105°	17	18
115°	18	18
125°	19	17
135°	25	19
145°	32	20
155°	44	20
165°	22	8
175°	15	1
180°	15	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5830.1
2.5°	5832.7
5°	5826.7
7.5°	5812.1
10°	5795.8
12.5°	5780.4
15°	5763.2
17.5°	5744.3
20°	5718.6
22.5°	5682.6
25°	5637.9
27.5°	5511.8
30°	5146.4
32.5°	4670.3
35°	4149.5
37.5°	3663.1
40°	3272.8
42.5°	2939.1
45°	2592.5
47.5°	2212.5
50°	1696.9
52.5°	1145.3
55°	816.7
57.5°	749.8
60°	724.9
62.5°	694.0
65°	657.1
67.5°	613.4
70°	559.3
72.5°	497.6
75°	429.8
77.5°	359.4
80°	288.2
82.5°	217.9
85°	148.4
87.5°	79.8
90°	17.2
92.5°	15.4
95°	16.3
97.5°	17.2
100°	17.2
102.5°	17.2
105°	17.2
107.5°	17.2
110°	17.2

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	17.2
115°	18.0
117.5°	18.0
120°	18.0
122.5°	18.9
125°	18.9
127.5°	20.6
130°	21.4
132.5°	23.2
135°	24.9
137.5°	26.6
140°	28.3
142.5°	30.0
145°	31.7
147.5°	34.3
150°	37.7
152.5°	41.2
155°	43.8
157.5°	44.6
160°	42.0
162.5°	36.9
165°	22.3
167.5°	16.3
170°	16.3
172.5°	15.4
175°	15.4
177.5°	15.4
180°	15.4

(END OF REPORT)