

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: P701296

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-WHTE(4000K_L15_120V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P701296
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(4000K_L15_120V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH WHITE SHADE
LIGHT LEVEL - 15,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

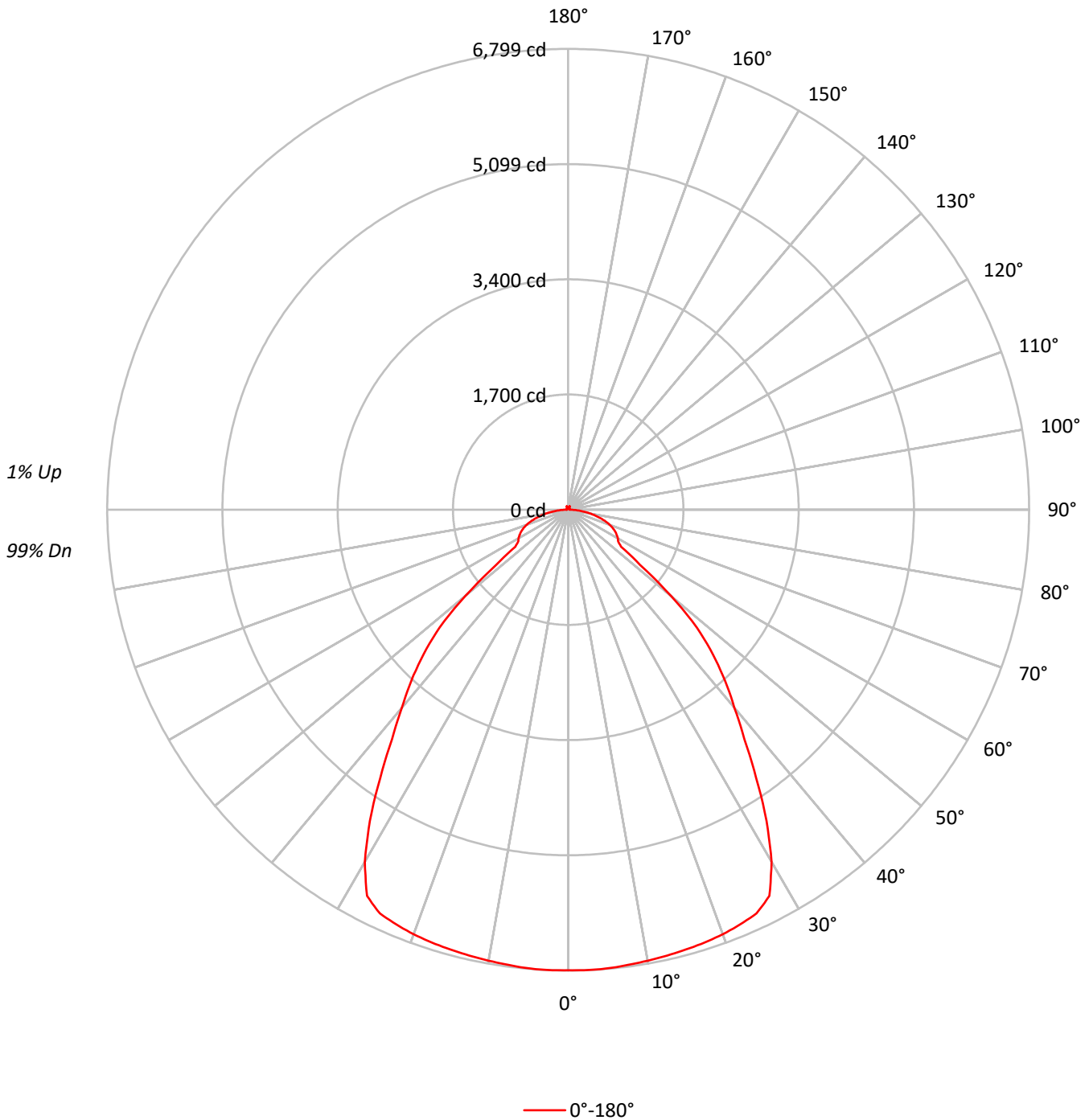
Lumens per Lamp: N/A
Luminaire Lumens: 13511.2 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.19
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 98.2
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°	50791
5°	46934
10°	43721
15°	41174
20°	39084
25°	37204
30°	33070
35°	26178
40°	20430
45°	16136
50°	10612
55°	5171
60°	4684
65°	4369
70°	3860
75°	3108
80°	2206
85°	1217

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16136 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	647.1	4.8
10°-20°	1902.4	14.1
20°-30°	2995.7	22.2
30°-40°	3028.3	22.4
40°-50°	2289.7	16.9
50°-60°	1016.5	7.5
60°-70°	752.8	5.6
70°-80°	526.1	3.9
80°-90°	190.0	1.4
90°-100°	21.0	0.2
100°-110°	21.2	0.2
110°-120°	20.5	0.2
120°-130°	20.4	0.2
130°-140°	22.4	0.2
140°-150°	23.5	0.2
150°-160°	22.8	0.2
160°-170°	9.2	0.1
170°-180°	1.7	0.0
0°-30°	5545.2	41.0
0°-40°	8573.5	63.5
0°-60°	11879.7	87.9
0°-90°	13348.7	98.8
90°-120°	62.6	0.5
90°-150°	128.9	1.0
90°-180°	163.0	1.2
0°-180°	13511.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6796	
5°	6792	647
15°	6718	1902
25°	6572	2996
35°	4837	3028
45°	3022	2290
55°	952	1016
65°	766	753
75°	501	526
85°	173	174
90°	20	21
95°	19	16
105°	20	21
115°	21	20
125°	22	20
135°	29	22
145°	37	24
155°	51	23
165°	26	9
175°	18	2
180°	18	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	6796
2.5°	6799
5°	6792
7.5°	6775
10°	6756
12.5°	6738
15°	6718
17.5°	6696
20°	6666
22.5°	6624
25°	6572
27.5°	6425
30°	5999
32.5°	5444
35°	4837
37.5°	4270
40°	3815
42.5°	3426
45°	3022
47.5°	2579
50°	1978
52.5°	1335
55°	952
57.5°	874
60°	845
62.5°	809
65°	766
67.5°	715
70°	652
72.5°	580
75°	501
77.5°	419
80°	336
82.5°	254
85°	173
87.5°	93
90°	20
92.5°	18
95°	19
97.5°	20
100°	20
102.5°	20
105°	20
107.5°	20
110°	20

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	20
115°	21
117.5°	21
120°	21
122.5°	22
125°	22
127.5°	24
130°	25
132.5°	27
135°	29
137.5°	31
140°	33
142.5°	35
145°	37
147.5°	40
150°	44
152.5°	48
155°	51
157.5°	52
160°	49
162.5°	43
165°	26
167.5°	19
170°	19
172.5°	18
175°	18
177.5°	18
180°	18

(END OF REPORT)