

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: P701298

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-BLAK(5000K_L18_120V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P701298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-038-1)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UHBS-1218-MV-L84050-BLAK(5000K_L18_120V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH BLACK SHADE
LIGHT LEVEL - 18,0000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

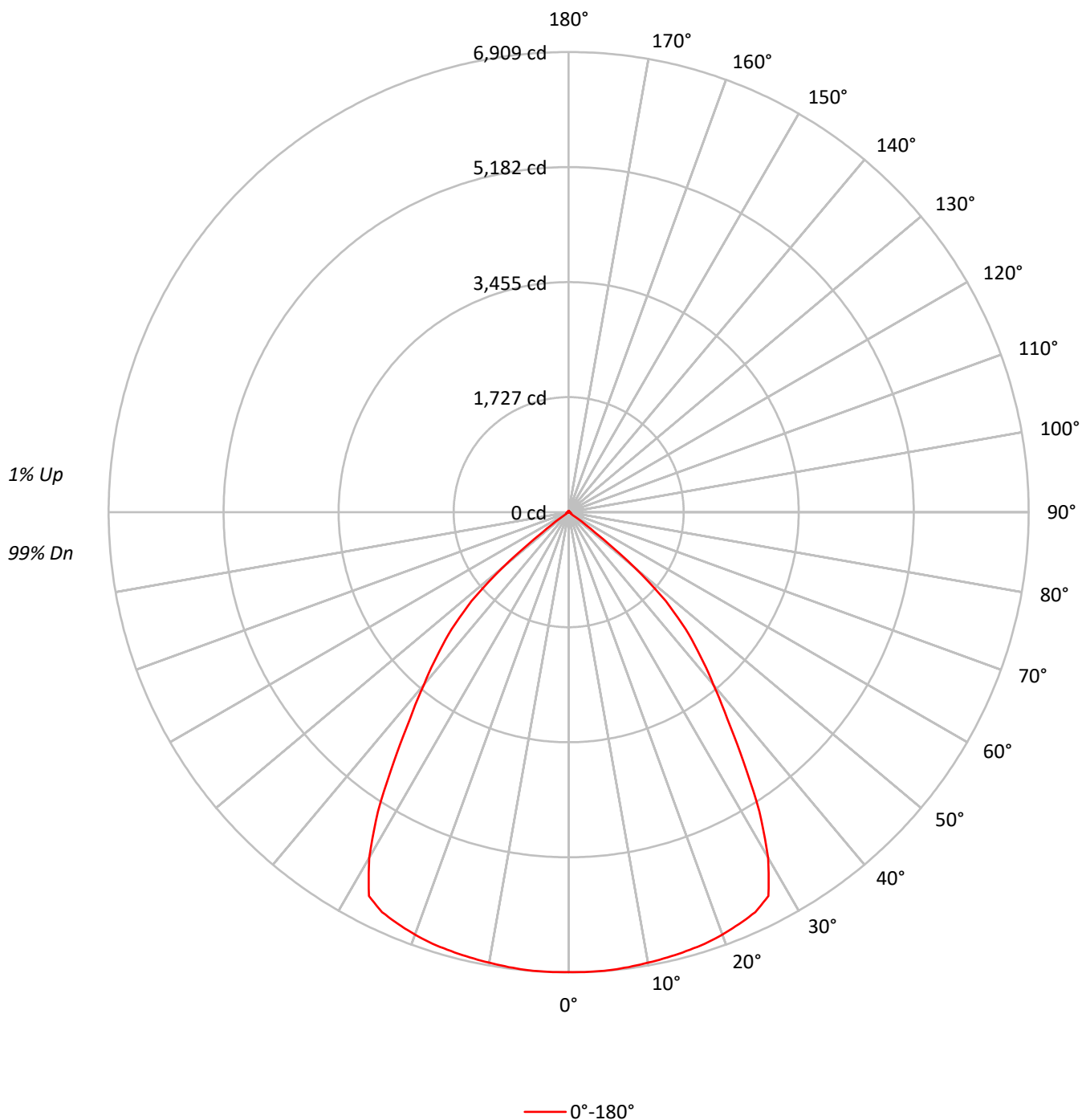
Lumens per Lamp: N/A
Luminaire Lumens: 10767.1 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.14
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 118.4
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

TEST NUMBER: P701298

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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101				99
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	94	93				91
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85				83
3	100	92	86	82	97	91	85	81	88	83	80	85	82	78	83	80	77				75
4	93	85	78	74	91	84	78	73	81	76	72	79	75	71	77	73	70				69
5	88	78	71	66	86	77	71	66	75	70	65	73	68	65	72	67	64				62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59				57
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54				52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49				48
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46				44
10	65	54	47	43	64	53	47	43	52	46	42	51	46	42	51	46	42				41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	51610
5°	47719
10°	44445
15°	41819
20°	39577
25°	37518
30°	33015
35°	24754
40°	18115
45°	13256
50°	7023
55°	359
60°	228
65°	208
70°	188
75°	146
80°	93
85°	50

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13256 cd/sqm

TEST NUMBER: P701298

CATALOG NUMBER: PRLX-UHBS-1218-MV-L84050-BLAK(5000K_L18_120V)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.8	6.1
10°-20°	1931.2	17.9
20°-30°	3021.9	28.1
30°-40°	2872.3	26.7
40°-50°	1863.6	17.3
50°-60°	278.3	2.6
60°-70°	36.2	0.3
70°-80°	24.4	0.2
80°-90°	8.3	0.1
90°-100°	10.4	0.1
100°-110°	11.2	0.1
110°-120°	10.5	0.1
120°-130°	9.9	0.1
130°-140°	10.2	0.1
140°-150°	9.3	0.1
150°-160°	7.0	0.1
160°-170°	3.5	0.0
170°-180°	0.9	0.0
0°-30°	5610.9	52.1
0°-40°	8483.2	78.8
0°-60°	10625.1	98.7
0°-90°	10694.0	99.3
90°-120°	32.2	0.3
90°-150°	61.6	0.6
90°-180°	73.0	0.7
0°-180°	10767.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6906	
5°	6906	658
15°	6823	1931
25°	6628	3022
35°	4574	2872
45°	2482	1864
55°	66	278
65°	36	36
75°	24	24
85°	7	7
90°	5	3
95°	11	8
105°	11	11
115°	11	11
125°	11	10
135°	13	10
145°	15	9
155°	15	7
165°	12	4
175°	9	1
180°	9	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	6905.6
2.5°	6909.2
5°	6905.6
7.5°	6889.1
10°	6867.9
12.5°	6847.9
15°	6823.2
17.5°	6793.7
20°	6750.1
22.5°	6692.4
25°	6627.6
27.5°	6496.8
30°	5989.0
32.5°	5329.2
35°	4573.9
37.5°	3910.6
40°	3382.7
42.5°	2927.9
45°	2482.5
47.5°	1978.3
50°	1309.0
52.5°	498.4
55°	66.0
57.5°	44.8
60°	41.2
62.5°	38.9
65°	36.5
67.5°	34.2
70°	31.8
72.5°	27.1
75°	23.6
77.5°	18.9
80°	14.1
82.5°	10.6
85°	7.1
87.5°	3.5
90°	4.7
92.5°	9.4
95°	10.6
97.5°	10.6
100°	10.6
102.5°	10.6
105°	10.6
107.5°	10.6
110°	10.6

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	10.6
115°	10.6
117.5°	10.6
120°	10.6
122.5°	10.6
125°	10.6
127.5°	11.8
130°	11.8
132.5°	13.0
135°	13.0
137.5°	14.1
140°	14.1
142.5°	14.1
145°	15.3
147.5°	15.3
150°	15.3
152.5°	15.3
155°	15.3
157.5°	15.3
160°	14.1
162.5°	14.1
165°	11.8
167.5°	10.6
170°	10.6
172.5°	9.4
175°	9.4
177.5°	9.4
180°	9.4

(END OF REPORT)