

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: P701303

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

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P701303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-038-2)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-UHBS-1218-MV-L84050-CLER(5000K_L18_120V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH CLEAR SHADE
LIGHT LEVEL - 18,000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

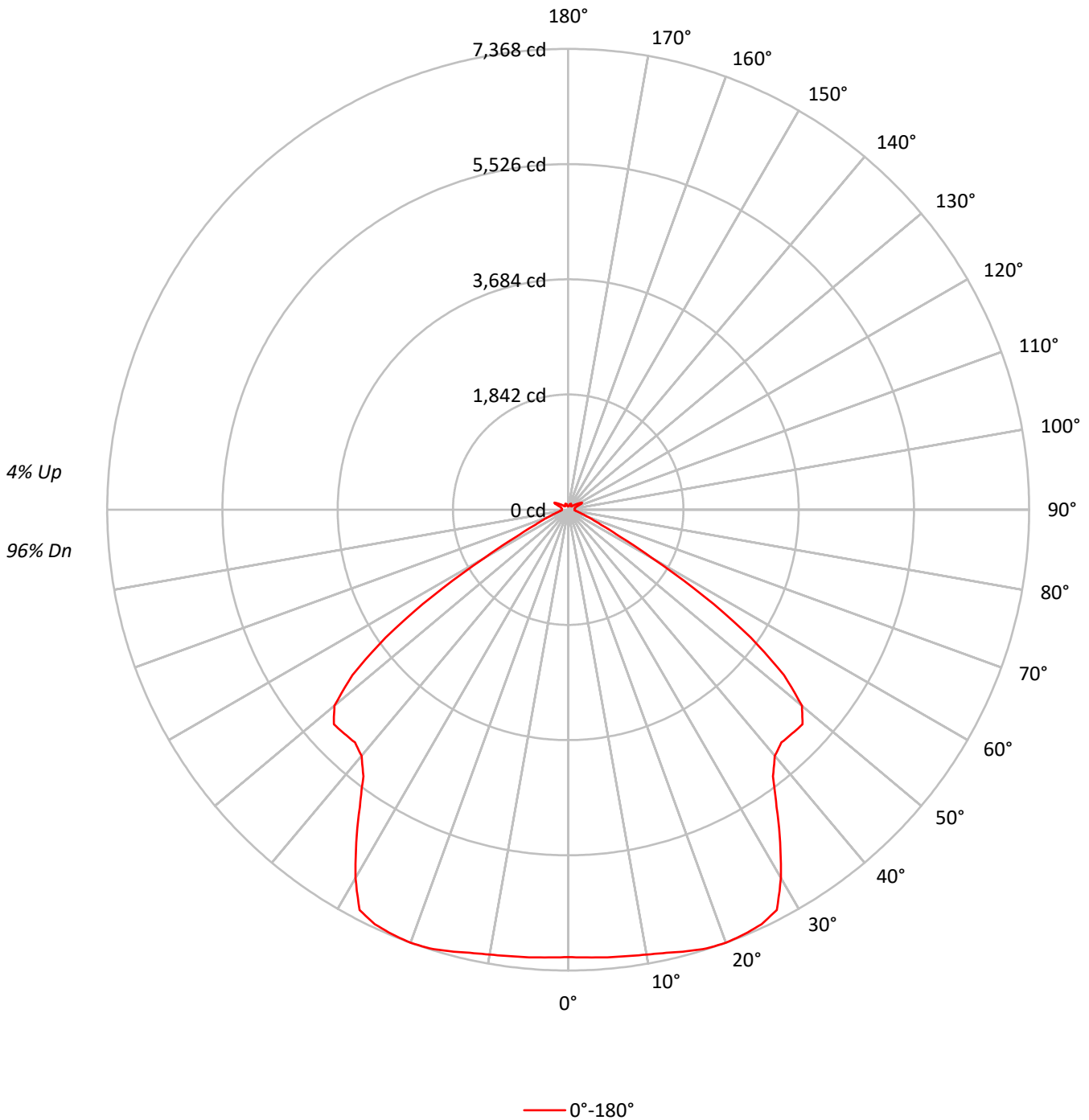
Lumens per Lamp: N/A
Luminaire Lumens: 18546.4 lumens
Efficiency: N/A
Efficacy: 156.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.41
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

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: P701303

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

Luminous Intensity Polar Plot





TEST NUMBER: P701303

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

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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	110	106	103	100	107	103	100	98	99	96	94	94	92	90	90	88	87	85
2	102	95	89	84	99	93	87	83	88	84	80	85	81	78	81	78	76	74
3	94	85	78	72	91	83	76	71	79	74	69	76	72	68	73	69	66	64
4	86	76	68	62	84	74	67	62	71	65	60	69	63	59	66	62	58	56
5	80	68	60	54	78	67	59	54	64	58	53	62	56	52	60	55	51	49
6	74	62	54	48	72	61	53	47	59	52	47	57	51	46	55	49	45	43
7	69	56	48	42	67	55	48	42	53	47	42	52	46	41	50	45	40	39
8	64	51	43	38	62	50	43	38	49	42	37	47	41	37	46	40	36	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	42	37	33	31
10	56	44	36	31	55	43	36	31	42	35	31	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	53460
5°	49640
10°	46733
15°	44801
20°	43197
25°	41400
30°	37484
35°	31424
40°	27510
45°	27028
50°	26163
55°	19348
60°	8628
65°	3454
70°	1974
75°	1221
80°	898
85°	771

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 27160 cd/sqm



TEST NUMBER: P701303

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	686.8	3.7
10°-20°	2072.8	11.2
20°-30°	3345.4	18.0
30°-40°	3662.0	19.7
40°-50°	3908.5	21.1
50°-60°	3042.4	16.4
60°-70°	718.5	3.9
70°-80°	222.8	1.2
80°-90°	123.1	0.7
90°-100°	111.8	0.6
100°-110°	123.3	0.7
110°-120°	204.8	1.1
120°-130°	135.4	0.7
130°-140°	64.5	0.3
140°-150°	50.6	0.3
150°-160°	46.0	0.2
160°-170°	22.2	0.1
170°-180°	5.5	0.0
0°-30°	6105.0	32.9
0°-40°	9767.0	52.7
0°-60°	16717.9	90.1
0°-90°	17782.3	95.9
90°-120°	439.9	2.4
90°-150°	690.5	3.7
90°-180°	764.0	4.1
0°-180°	18546.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7153	
5°	7184	687
15°	7310	2073
25°	7313	3345
35°	5806	3662
45°	5062	3909
55°	3562	3042
65°	606	719
75°	197	223
85°	110	95
90°	99	55
95°	102	84
105°	114	123
115°	233	205
125°	147	135
135°	79	65
145°	79	51
155°	102	46
165°	75	22
175°	55	5
180°	55	

TEST NUMBER: P701303

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

CANDELA DISTRIBUTION (FULL):

0°	
0°	7153.1
2.5°	7166.0
5°	7183.7
7.5°	7200.2
10°	7221.4
12.5°	7256.8
15°	7309.8
17.5°	7354.5
20°	7367.5
22.5°	7347.5
25°	7313.3
27.5°	7217.9
30°	6799.6
32.5°	6304.7
35°	5806.3
37.5°	5373.9
40°	5137.1
42.5°	5046.4
45°	5061.7
47.5°	5079.4
50°	4876.7
52.5°	4346.5
55°	3561.8
57.5°	2569.7
60°	1556.4
62.5°	933.2
65°	605.6
67.5°	440.7
70°	333.4
72.5°	252.1
75°	196.8
77.5°	161.4
80°	136.7
82.5°	120.2
85°	109.6
87.5°	103.7
90°	99.0
92.5°	101.3
95°	102.5
97.5°	103.7
100°	106.0
102.5°	111.9
105°	114.3
107.5°	119.0
110°	136.7

TEST NUMBER: P701303

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

CANDELA DISTRIBUTION (continued):

	0°
112.5°	176.7
115°	233.3
117.5°	246.3
120°	206.2
122.5°	173.2
125°	147.3
127.5°	123.7
130°	104.9
132.5°	89.5
135°	78.9
137.5°	74.2
140°	73.1
142.5°	75.4
145°	78.9
147.5°	86.0
150°	94.3
152.5°	100.2
155°	102.5
157.5°	100.2
160°	94.3
162.5°	86.0
165°	75.4
167.5°	67.2
170°	61.3
172.5°	57.7
175°	55.4
177.5°	55.4
180°	55.4

(END OF REPORT)