

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: P701289

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-TRWH(4000K_L12_120V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P701289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-038-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-UHBS-1218-MV-L84050-TRWH(4000K_L12_120V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE
LIGHT LEVEL - 12,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

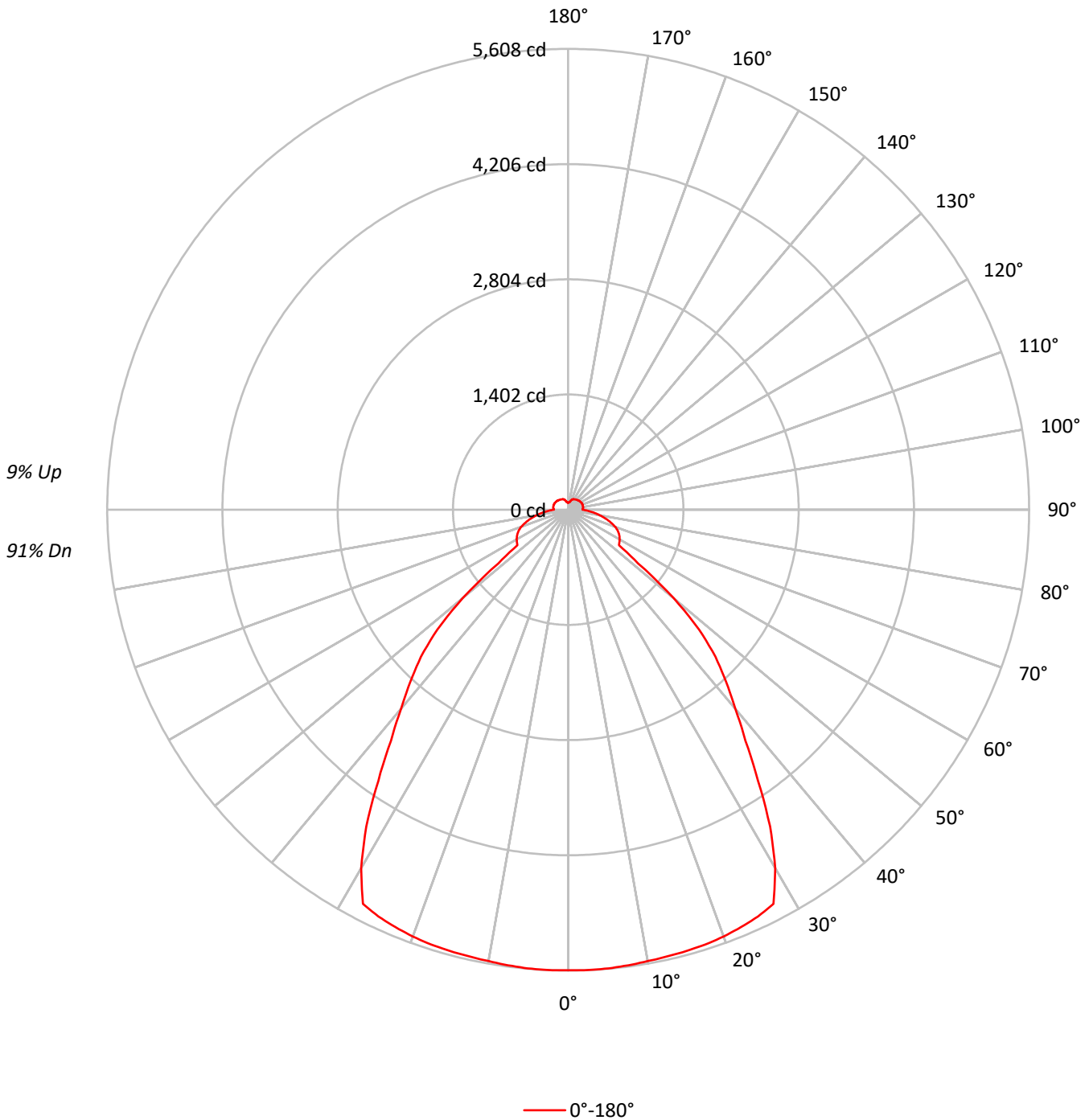
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12448.4 lumens
Efficiency: N/A
Efficacy: 155.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.19
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 80.3
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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	108	104	100	97	104	101	97	94	95	92	90	90	88	85	85	83	82	79
2	100	93	87	82	97	90	85	80	85	81	77	81	77	74	77	74	71	69
3	92	83	76	71	89	81	75	69	77	72	67	73	69	65	70	66	63	61
4	86	75	68	62	83	73	66	61	70	64	59	67	62	58	64	59	56	54
5	80	68	60	55	77	67	59	54	64	58	53	61	56	51	58	54	50	48
6	74	62	55	49	72	61	54	48	59	52	47	56	51	46	54	49	45	43
7	69	57	49	44	67	56	49	44	54	47	43	52	46	42	50	45	41	39
8	65	53	45	40	63	52	44	39	50	43	39	48	42	38	46	41	37	36
9	61	49	41	36	59	48	41	36	46	40	35	45	39	35	43	38	34	32
10	57	45	38	33	56	44	38	33	43	37	32	42	36	32	40	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	41885
5°	38721
10°	36098
15°	34074
20°	32408
25°	30922
30°	27768
35°	21799
40°	16935
45°	13528
50°	8974
55°	4096
60°	4011
65°	3872
70°	3598
75°	3125
80°	2564
85°	1967

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13528 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.0	4.3
10°-20°	1574.6	12.6
20°-30°	2500.3	20.1
30°-40°	2526.8	20.3
40°-50°	1912.1	15.4
50°-60°	836.9	6.7
60°-70°	668.3	5.4
70°-80°	530.0	4.3
80°-90°	305.7	2.5
90°-100°	196.9	1.6
100°-110°	196.0	1.6
110°-120°	181.7	1.5
120°-130°	157.2	1.3
130°-140°	127.3	1.0
140°-150°	95.7	0.8
150°-160°	64.7	0.5
160°-170°	31.7	0.3
170°-180°	8.6	0.1
0°-30°	4608.9	37.0
0°-40°	7135.7	57.3
0°-60°	9884.6	79.4
0°-90°	11388.7	91.5
90°-120°	574.5	4.6
90°-150°	954.8	7.7
90°-180°	1060.0	8.5
0°-180°	12448.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5604	
5°	5604	534
15°	5560	1575
25°	5462	2500
35°	4028	2527
45°	2533	1912
55°	754	837
65°	679	668
75°	504	530
85°	280	251
90°	172	103
95°	182	149
105°	186	196
115°	183	182
125°	176	157
135°	164	127
145°	152	96
155°	140	65
165°	107	32
175°	88	9
180°	84	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5604.3
2.5°	5607.7
5°	5603.5
7.5°	5592.5
10°	5578.1
12.5°	5568.8
15°	5559.5
17.5°	5547.7
20°	5527.4
22.5°	5497.8
25°	5462.3
27.5°	5407.4
30°	5037.1
32.5°	4569.7
35°	4027.8
37.5°	3543.5
40°	3162.3
42.5°	2842.7
45°	2533.4
47.5°	2160.6
50°	1672.8
52.5°	1072.7
55°	754.0
57.5°	738.8
60°	723.6
62.5°	703.3
65°	678.8
67.5°	648.3
70°	607.8
72.5°	557.1
75°	503.8
77.5°	447.2
80°	390.5
82.5°	335.6
85°	279.8
87.5°	224.8
90°	172.4
92.5°	178.4
95°	181.7
97.5°	183.4
100°	184.3
102.5°	185.1
105°	186.0
107.5°	185.1
110°	185.1

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	184.3
115°	183.4
117.5°	181.7
120°	180.0
122.5°	177.5
125°	175.8
127.5°	172.4
130°	169.9
132.5°	167.4
135°	164.0
137.5°	161.5
140°	158.1
142.5°	155.5
145°	152.2
147.5°	148.8
150°	146.2
152.5°	143.7
155°	140.3
157.5°	135.2
160°	129.3
162.5°	120.9
165°	107.4
167.5°	98.9
170°	94.7
172.5°	91.3
175°	87.9
177.5°	86.2
180°	84.5

(END OF REPORT)