

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: P701290

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

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P701290
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_L15_120V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE
LIGHT LEVEL - 15,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

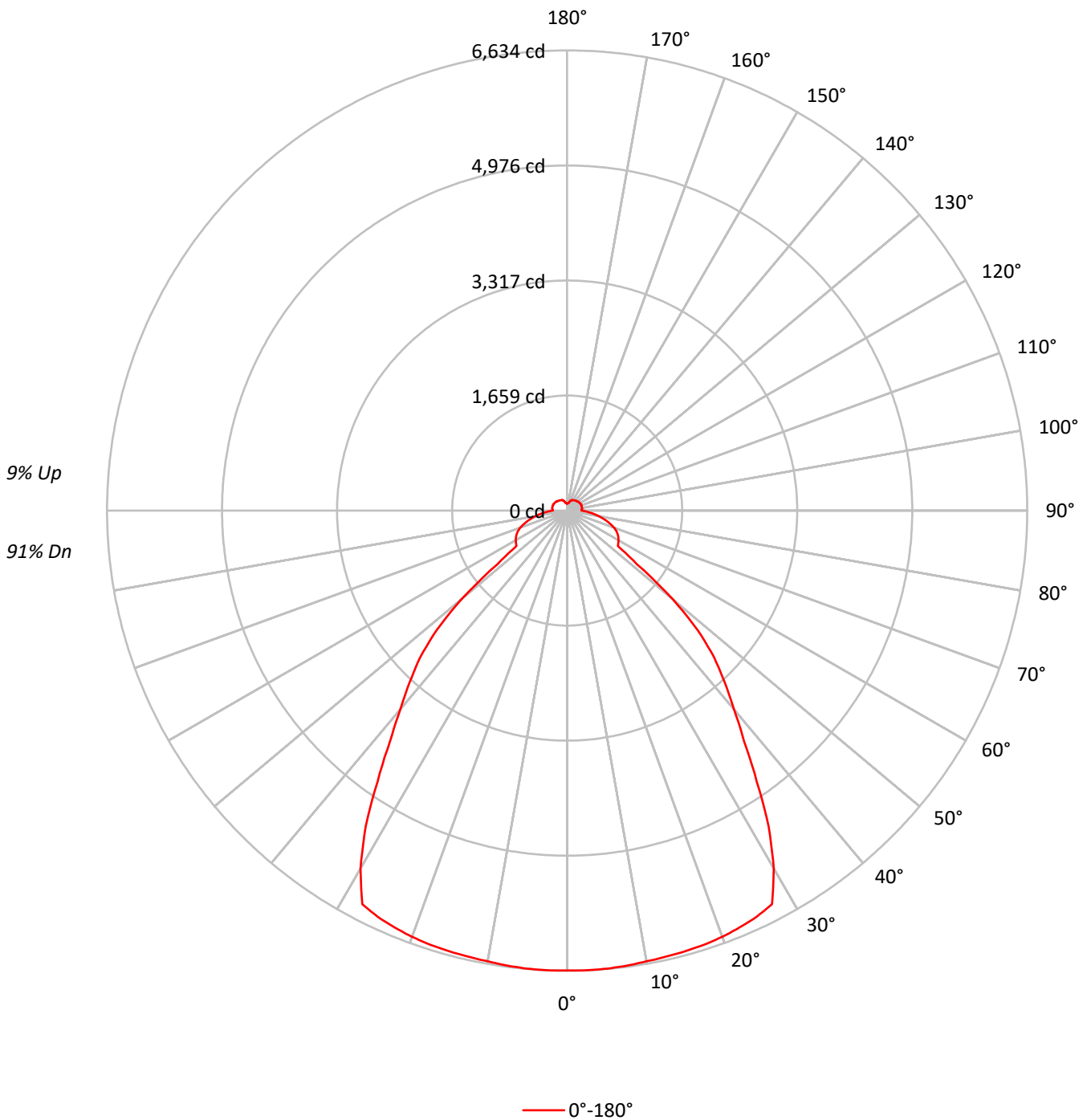
Lumens per Lamp: N/A
Luminaire Lumens: 14726.7 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.19
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 98.5
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: P701290

CATALOG NUMBER: PRLX-UHBS-1218-MV-L84050-TRWH(4000K_L15_120V)

Luminous Intensity Polar Plot





TEST NUMBER: P701290

CATALOG NUMBER: PRLX-UHBS-1218-MV-L84050-TRWH(4000K_L15_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	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°	49551
5°	45807
10°	42705
15°	40310
20°	38340
25°	36581
30°	32850
35°	25789
40°	20034
45°	16003
50°	10617
55°	4845
60°	4745
65°	4580
70°	4257
75°	3697
80°	3034
85°	2328

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16003 cd/sqm



TEST NUMBER: P701290

CATALOG NUMBER: PRLX-UHBS-1218-MV-L84050-TRWH(4000K_L15_120V)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	631.7	4.3
10°-20°	1862.8	12.6
20°-30°	2957.9	20.1
30°-40°	2989.2	20.3
40°-50°	2262.0	15.4
50°-60°	990.1	6.7
60°-70°	790.6	5.4
70°-80°	627.0	4.3
80°-90°	361.6	2.5
90°-100°	232.9	1.6
100°-110°	231.8	1.6
110°-120°	214.9	1.5
120°-130°	186.0	1.3
130°-140°	150.6	1.0
140°-150°	113.3	0.8
150°-160°	76.5	0.5
160°-170°	37.5	0.3
170°-180°	10.2	0.1
0°-30°	5452.4	37.0
0°-40°	8441.6	57.3
0°-60°	11693.7	79.4
0°-90°	13472.9	91.5
90°-120°	679.7	4.6
90°-150°	1129.6	7.7
90°-180°	1254.0	8.5
0°-180°	14726.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6630	
5°	6629	632
15°	6577	1863
25°	6462	2958
35°	4765	2989
45°	2997	2262
55°	892	990
65°	803	791
75°	596	627
85°	331	297
90°	204	121
95°	215	176
105°	220	232
115°	217	215
125°	208	186
135°	194	151
145°	180	113
155°	166	77
165°	127	37
175°	104	10
180°	100	

TEST NUMBER: P701290

CATALOG NUMBER: PRLX-UHBS-1218-MV-L84050-TRWH(4000K_L15_120V)

CANDELA DISTRIBUTION (FULL):

0°	
0°	6630
2.5°	6634
5°	6629
7.5°	6616
10°	6599
12.5°	6588
15°	6577
17.5°	6563
20°	6539
22.5°	6504
25°	6462
27.5°	6397
30°	5959
32.5°	5406
35°	4765
37.5°	4192
40°	3741
42.5°	3363
45°	2997
47.5°	2556
50°	1979
52.5°	1269
55°	892
57.5°	874
60°	856
62.5°	832
65°	803
67.5°	767
70°	719
72.5°	659
75°	596
77.5°	529
80°	462
82.5°	397
85°	331
87.5°	266
90°	204
92.5°	211
95°	215
97.5°	217
100°	218
102.5°	219
105°	220
107.5°	219
110°	219

TEST NUMBER: P701290

CATALOG NUMBER: PRLX-UHBS-1218-MV-L84050-TRWH(4000K_L15_120V)

CANDELA DISTRIBUTION (continued):

	0°
112.5°	218
115°	217
117.5°	215
120°	213
122.5°	210
125°	208
127.5°	204
130°	201
132.5°	198
135°	194
137.5°	191
140°	187
142.5°	184
145°	180
147.5°	176
150°	173
152.5°	170
155°	166
157.5°	160
160°	153
162.5°	143
165°	127
167.5°	117
170°	112
172.5°	108
175°	104
177.5°	102
180°	100

(END OF REPORT)