

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: P709484

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-TRWH(5000K_L15_347V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709484
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: PrentaLux
Catalog Number: PRLX-UHBS-1218-MV-L84050-TRWH(5000K_L15_347V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE
LIGHT LEVEL - 15,0000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

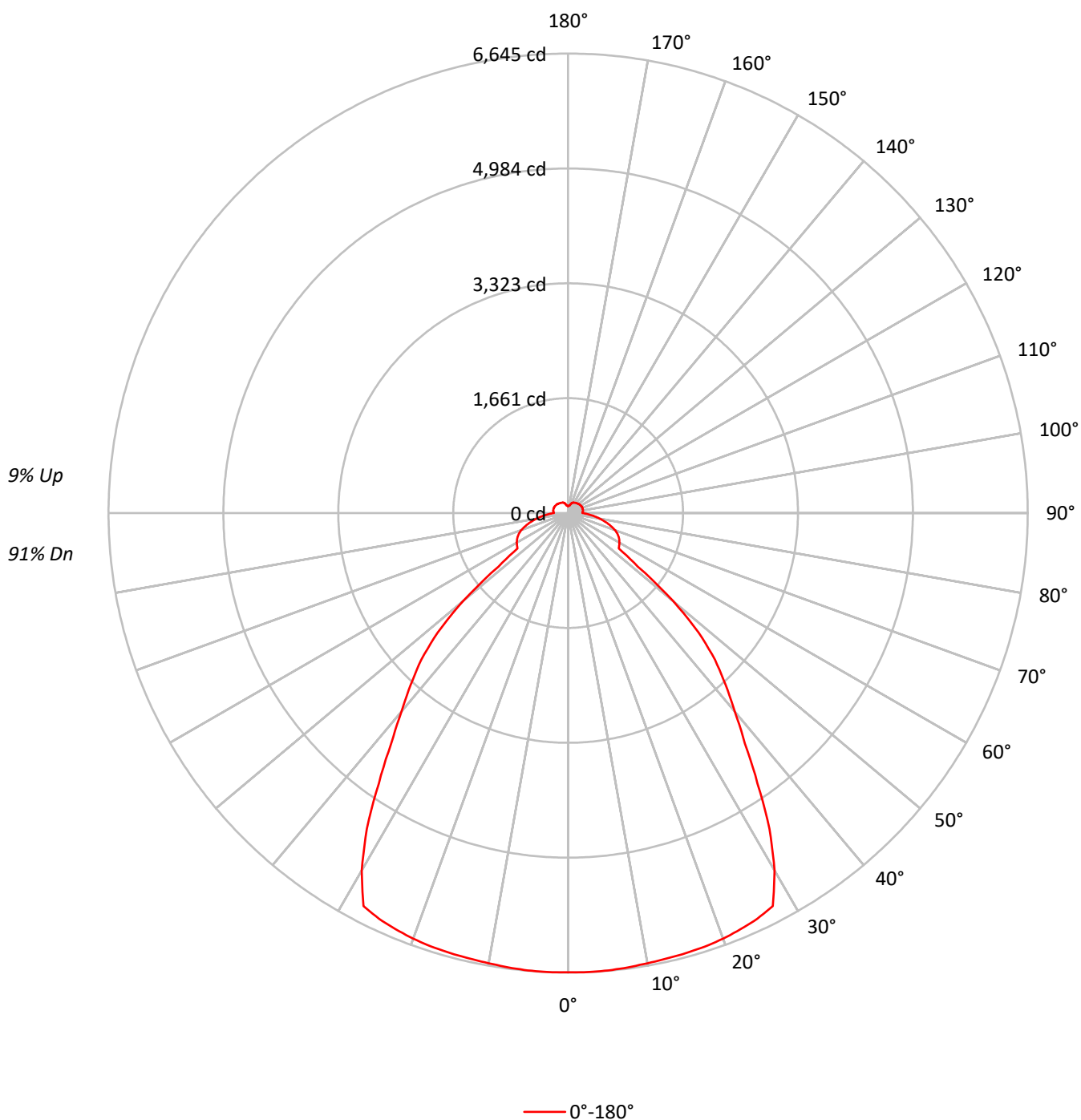
Lumens per Lamp: N/A
Luminaire Lumens: 14751.2 lumens
Efficiency: N/A
Efficacy: 154.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.19
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 95.7
Input Voltage (V): 347
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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10		
RCR																									
0	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	94	94	94	94	94			
1	108	104	100	97	104	101	97	94	95	92	90	90	88	85	85	83	82	82	82	82	82	79			
2	100	93	87	82	97	90	85	80	85	81	77	81	77	74	77	74	71	71	71	71	71	69			
3	92	83	76	71	89	81	75	69	77	72	67	73	69	65	70	66	63	63	63	63	63	61			
4	86	75	68	62	83	73	66	61	70	64	59	67	62	58	64	59	56	56	56	56	56	54			
5	80	68	60	55	77	67	59	54	64	58	53	61	56	51	58	54	50	50	50	50	50	48			
6	74	62	55	49	72	61	54	48	59	52	47	56	51	46	54	49	45	45	45	45	45	43			
7	69	57	49	44	67	56	49	44	54	47	43	52	46	42	50	45	41	41	41	41	41	39			
8	65	53	45	40	63	52	44	39	50	43	39	48	42	38	46	41	37	37	37	37	37	36			
9	61	49	41	36	59	48	41	36	46	40	35	45	39	35	43	38	34	34	34	34	34	32			
10	57	45	38	33	56	44	38	33	43	37	32	42	36	32	40	35	31	31	31	31	31	30			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	49633
5°	45883
10°	42776
15°	40377
20°	38404
25°	36642
30°	32905
35°	25832
40°	20067
45°	16030
50°	10635
55°	4853
60°	4753
65°	4588
70°	4264
75°	3703
80°	3039
85°	2331

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16030 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.8	4.3
10°-20°	1865.9	12.6
20°-30°	2962.8	20.1
30°-40°	2994.2	20.3
40°-50°	2265.8	15.4
50°-60°	991.7	6.7
60°-70°	792.0	5.4
70°-80°	628.1	4.3
80°-90°	362.2	2.5
90°-100°	233.3	1.6
100°-110°	232.2	1.6
110°-120°	215.3	1.5
120°-130°	186.4	1.3
130°-140°	150.8	1.0
140°-150°	113.4	0.8
150°-160°	76.7	0.5
160°-170°	37.5	0.3
170°-180°	10.2	0.1
0°-30°	5461.5	37.0
0°-40°	8455.7	57.3
0°-60°	11713.1	79.4
0°-90°	13495.4	91.5
90°-120°	680.8	4.6
90°-150°	1131.4	7.7
90°-180°	1256.0	8.5
0°-180°	14751.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6641	
5°	6640	633
15°	6588	1866
25°	6473	2963
35°	4773	2994
45°	3002	2266
55°	893	992
65°	804	792
75°	597	628
85°	332	298
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	38
175°	104	10
180°	100	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	6641.0
2.5°	6645.0
5°	6640.0
7.5°	6627.1
10°	6610.0
12.5°	6599.0
15°	6587.9
17.5°	6573.9
20°	6549.9
22.5°	6514.8
25°	6472.8
27.5°	6407.7
30°	5968.9
32.5°	5415.0
35°	4773.0
37.5°	4199.0
40°	3747.2
42.5°	3368.6
45°	3002.0
47.5°	2560.3
50°	1982.3
52.5°	1271.1
55°	893.4
57.5°	875.5
60°	857.4
62.5°	833.4
65°	804.3
67.5°	768.3
70°	720.2
72.5°	660.1
75°	597.0
77.5°	529.9
80°	462.8
82.5°	397.6
85°	331.5
87.5°	266.5
90°	204.4
92.5°	211.3
95°	215.4
97.5°	217.3
100°	218.3
102.5°	219.4
105°	220.4
107.5°	219.4
110°	219.4

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	218.3
115°	217.3
117.5°	215.4
120°	213.3
122.5°	210.4
125°	208.3
127.5°	204.4
130°	201.3
132.5°	198.4
135°	194.3
137.5°	191.3
140°	187.3
142.5°	184.3
145°	180.3
147.5°	176.3
150°	173.3
152.5°	170.3
155°	166.2
157.5°	160.3
160°	153.3
162.5°	143.3
165°	127.2
167.5°	117.2
170°	112.2
172.5°	108.2
175°	104.2
177.5°	102.2
180°	100.1

(END OF REPORT)