

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: P709472

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-TRWH(4000K_L15_347V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709472
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(4000K_L15_347V)
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

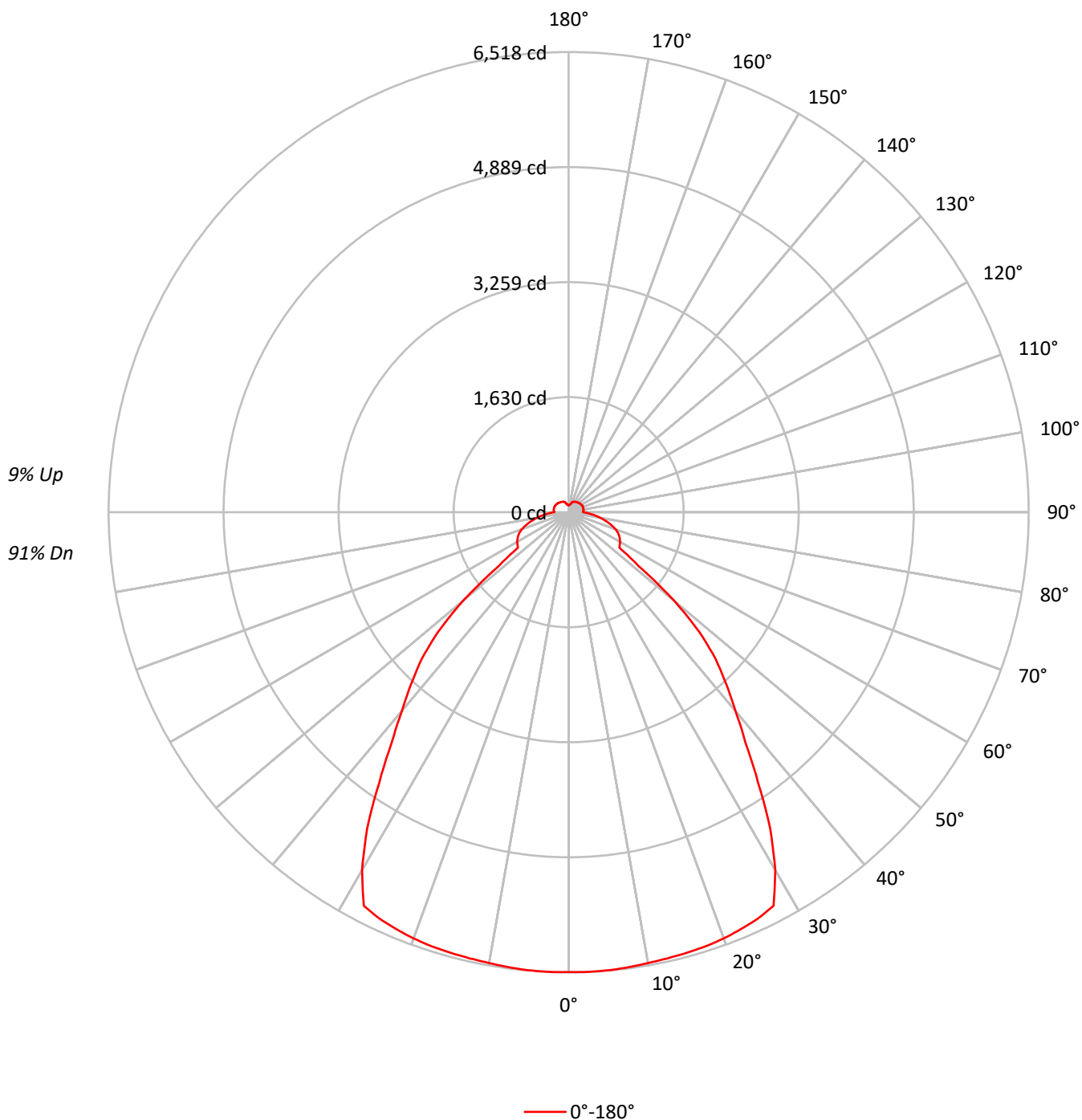
Lumens per Lamp: N/A
Luminaire Lumens: 14469.8 lumens
Efficiency: N/A
Efficacy: 151.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.19
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 95.5
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					0	
RW	70	50	30	10		70	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°	48687
5°	45008
10°	41960
15°	39607
20°	37671
25°	35943
30°	32277
35°	25339
40°	19684
45°	15724
50°	10432
55°	4761
60°	4663
65°	4500
70°	4183
75°	3632
80°	2980
85°	2287

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15724 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.7	4.3
10°-20°	1830.3	12.6
20°-30°	2906.3	20.1
30°-40°	2937.1	20.3
40°-50°	2222.5	15.4
50°-60°	972.8	6.7
60°-70°	776.9	5.4
70°-80°	616.1	4.3
80°-90°	355.3	2.5
90°-100°	228.8	1.6
100°-110°	227.8	1.6
110°-120°	211.2	1.5
120°-130°	182.8	1.3
130°-140°	147.9	1.0
140°-150°	111.3	0.8
150°-160°	75.2	0.5
160°-170°	36.8	0.3
170°-180°	10.0	0.1
0°-30°	5357.3	37.0
0°-40°	8294.4	57.3
0°-60°	11489.7	79.4
0°-90°	13237.9	91.5
90°-120°	667.8	4.6
90°-150°	1109.8	7.7
90°-180°	1232.0	8.5
0°-180°	14469.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6514	
5°	6513	621
15°	6462	1830
25°	6349	2906
35°	4682	2937
45°	2945	2223
55°	876	973
65°	789	777
75°	586	616
85°	325	292
90°	200	119
95°	211	173
105°	216	228
115°	213	211
125°	204	183
135°	191	148
145°	177	111
155°	163	75
165°	125	37
175°	102	10
180°	98	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	6514.4
2.5°	6518.3
5°	6513.4
7.5°	6500.6
10°	6483.9
12.5°	6473.1
15°	6462.3
17.5°	6448.5
20°	6424.9
22.5°	6390.6
25°	6349.3
27.5°	6285.4
30°	5855.1
32.5°	5311.7
35°	4681.9
37.5°	4118.9
40°	3675.7
42.5°	3304.3
45°	2944.7
47.5°	2511.4
50°	1944.5
52.5°	1246.9
55°	876.4
57.5°	858.8
60°	841.1
62.5°	817.5
65°	789.0
67.5°	753.6
70°	706.5
72.5°	647.5
75°	585.6
77.5°	519.8
80°	453.9
82.5°	390.1
85°	325.2
87.5°	261.4
90°	200.4
92.5°	207.3
95°	211.2
97.5°	213.2
100°	214.2
102.5°	215.2
105°	216.2
107.5°	215.2
110°	215.2

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	214.2
115°	213.2
117.5°	211.2
120°	209.3
122.5°	206.3
125°	204.4
127.5°	200.4
130°	197.5
132.5°	194.5
135°	190.6
137.5°	187.7
140°	183.7
142.5°	180.8
145°	176.9
147.5°	172.9
150°	170.0
152.5°	167.0
155°	163.1
157.5°	157.2
160°	150.3
162.5°	140.5
165°	124.8
167.5°	115.0
170°	110.0
172.5°	106.1
175°	102.2
177.5°	100.2
180°	98.3

(END OF REPORT)