

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: P709475

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

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-038-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UHBS-1218-MV-L84050-WHTE(4000K_L15_347V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH WHITE SHADE
LIGHT LEVEL - 15,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

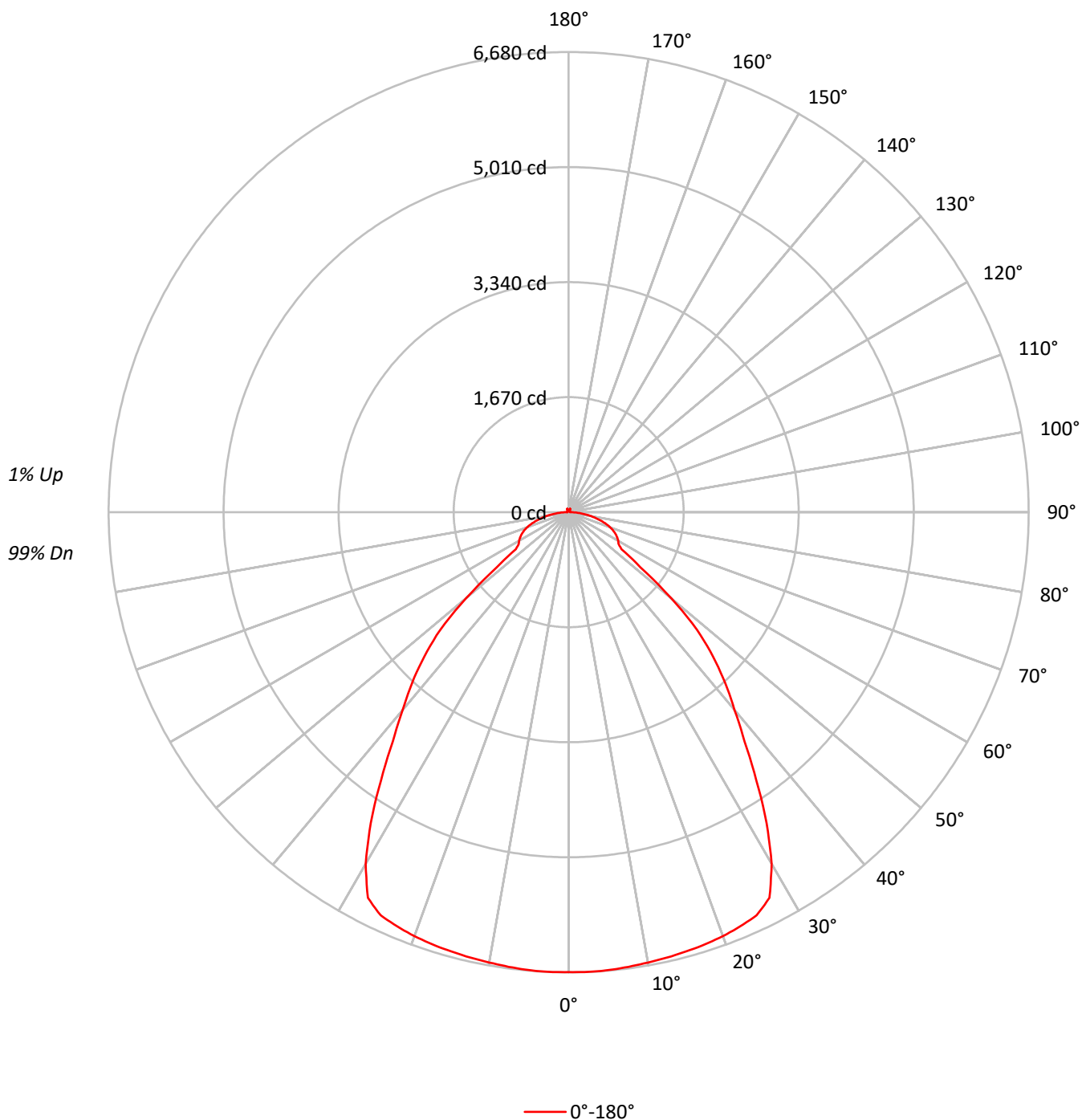
Lumens per Lamp: N/A
Luminaire Lumens: 13275.7 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.19
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 95.2
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	0		
RCR																				
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99		
1	110	106	103	100	108	104	101	98	100	97	95	96	93	92	92	90	89	87		
2	102	95	90	85	100	93	88	84	90	85	82	86	83	80	83	80	78	76		
3	95	86	79	74	92	84	78	73	81	76	71	79	74	70	76	72	69	67		
4	88	78	70	65	86	77	70	64	74	68	63	72	66	62	69	65	61	59		
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53		
6	77	65	57	51	75	64	57	51	62	56	51	60	55	50	59	54	50	48		
7	72	60	52	46	70	59	51	46	57	51	46	56	50	45	54	49	45	43		
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	50	45	41	39		
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36		
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	49906
5°	46115
10°	42958
15°	40456
20°	38402
25°	36555
30°	32494
35°	25722
40°	20074
45°	15855
50°	10427
55°	5081
60°	4603
65°	4293
70°	3793
75°	3054
80°	2168
85°	1195

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15855 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.8	4.8
10°-20°	1869.2	14.1
20°-30°	2943.4	22.2
30°-40°	2975.5	22.4
40°-50°	2249.8	16.9
50°-60°	998.8	7.5
60°-70°	739.7	5.6
70°-80°	517.0	3.9
80°-90°	186.7	1.4
90°-100°	20.7	0.2
100°-110°	20.8	0.2
110°-120°	20.1	0.2
120°-130°	20.0	0.2
130°-140°	22.0	0.2
140°-150°	23.1	0.2
150°-160°	22.4	0.2
160°-170°	9.0	0.1
170°-180°	1.7	0.0
0°-30°	5448.5	41.0
0°-40°	8424.0	63.5
0°-60°	11672.5	87.9
0°-90°	13115.9	98.8
90°-120°	61.6	0.5
90°-150°	126.7	1.0
90°-180°	160.0	1.2
0°-180°	13275.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6678	
5°	6674	636
15°	6601	1869
25°	6457	2943
35°	4753	2975
45°	2969	2250
55°	935	999
65°	753	740
75°	492	517
85°	170	171
90°	20	20
95°	19	16
105°	20	21
115°	21	20
125°	22	20
135°	28	22
145°	36	23
155°	50	22
165°	26	9
175°	18	2
180°	18	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	6677.5
2.5°	6680.4
5°	6673.5
7.5°	6656.8
10°	6638.2
12.5°	6620.5
15°	6600.8
17.5°	6579.2
20°	6549.7
22.5°	6508.5
25°	6457.4
27.5°	6312.9
30°	5894.4
32.5°	5349.0
35°	4752.6
37.5°	4195.5
40°	3748.5
42.5°	3366.2
45°	2969.3
47.5°	2534.0
50°	1943.5
52.5°	1311.7
55°	935.4
57.5°	858.8
60°	830.3
62.5°	794.9
65°	752.6
67.5°	702.5
70°	640.6
72.5°	569.9
75°	492.3
77.5°	411.7
80°	330.1
82.5°	249.6
85°	170.0
87.5°	91.4
90°	19.7
92.5°	17.7
95°	18.7
97.5°	19.7
100°	19.7
102.5°	19.7
105°	19.7
107.5°	19.7
110°	19.7

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	19.7
115°	20.6
117.5°	20.6
120°	20.6
122.5°	21.6
125°	21.6
127.5°	23.6
130°	24.6
132.5°	26.5
135°	28.5
137.5°	30.5
140°	32.4
142.5°	34.4
145°	36.4
147.5°	39.3
150°	43.2
152.5°	47.2
155°	50.1
157.5°	51.1
160°	48.1
162.5°	42.2
165°	25.5
167.5°	18.7
170°	18.7
172.5°	17.7
175°	17.7
177.5°	17.7
180°	17.7

(END OF REPORT)