

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: P709468

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-CLER(4000K_L12_347V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-038-2)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UHBS-1218-MV-L84050-CLER(4000K_L12_347V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH CLEAR SHADE
LIGHT LEVEL - 12,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

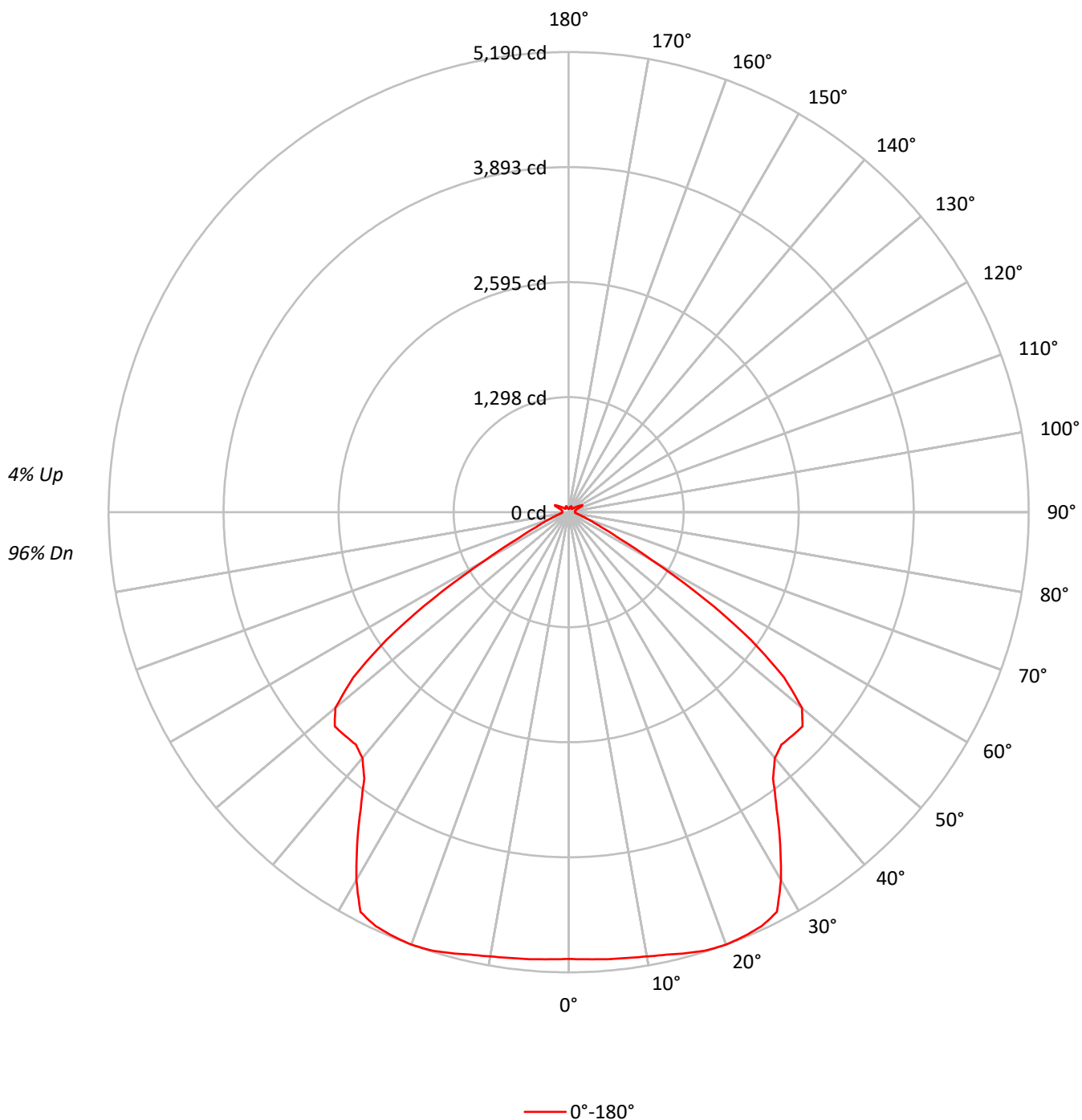
Lumens per Lamp: N/A
Luminaire Lumens: 13064.6 lumens
Efficiency: N/A
Efficacy: 164.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.41
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 79.6
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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	98	98	98	98	98			
1	110	106	103	100	107	103	100	98	99	96	94	94	92	90	90	88	87	87	87	87	87	85			
2	102	95	89	84	99	93	87	83	88	84	80	85	81	78	81	78	76	76	76	76	76	74			
3	94	85	78	72	91	83	76	71	79	74	69	76	72	68	73	69	66	66	66	66	66	64			
4	86	76	68	62	84	74	67	62	71	65	60	69	63	59	66	62	58	58	58	58	58	56			
5	80	68	60	54	78	67	59	54	64	58	53	62	56	52	60	55	51	51	51	51	51	49			
6	74	62	54	48	72	61	53	47	59	52	47	57	51	46	55	49	45	45	45	45	45	43			
7	69	56	48	42	67	55	48	42	53	47	42	52	46	41	50	45	40	40	40	40	40	39			
8	64	51	43	38	62	50	43	38	49	42	37	47	41	37	46	40	36	36	36	36	36	35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	42	37	33	33	33	33	33	31			
10	56	44	36	31	55	43	36	31	42	35	31	40	34	30	39	34	30	30	30	30	30	28			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	37659
5°	34968
10°	32919
15°	31559
20°	30429
25°	29163
30°	26405
35°	22136
40°	19379
45°	19039
50°	18430
55°	13629
60°	6078
65°	2433
70°	1391
75°	860
80°	632
85°	543

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 19133 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.8	3.7
10°-20°	1460.1	11.2
20°-30°	2356.6	18.0
30°-40°	2579.6	19.7
40°-50°	2753.3	21.1
50°-60°	2143.1	16.4
60°-70°	506.1	3.9
70°-80°	157.0	1.2
80°-90°	86.7	0.7
90°-100°	78.8	0.6
100°-110°	86.9	0.7
110°-120°	144.3	1.1
120°-130°	95.4	0.7
130°-140°	45.4	0.3
140°-150°	35.7	0.3
150°-160°	32.4	0.2
160°-170°	15.6	0.1
170°-180°	3.9	0.0
0°-30°	4300.5	32.9
0°-40°	6880.1	52.7
0°-60°	11776.5	90.1
0°-90°	12526.3	95.9
90°-120°	310.0	2.4
90°-150°	486.4	3.7
90°-180°	538.0	4.1
0°-180°	13064.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5039	
5°	5060	484
15°	5149	1460
25°	5152	2357
35°	4090	2580
45°	3566	2753
55°	2509	2143
65°	427	506
75°	139	157
85°	77	67
90°	70	39
95°	72	59
105°	80	87
115°	164	144
125°	104	95
135°	56	45
145°	56	36
155°	72	32
165°	53	16
175°	39	4
180°	39	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5038.8
2.5°	5047.9
5°	5060.4
7.5°	5072.0
10°	5086.9
12.5°	5111.8
15°	5149.2
17.5°	5180.8
20°	5189.8
22.5°	5175.8
25°	5151.7
27.5°	5084.5
30°	4789.8
32.5°	4441.2
35°	4090.1
37.5°	3785.5
40°	3618.7
42.5°	3554.8
45°	3565.6
47.5°	3578.1
50°	3435.3
52.5°	3061.8
55°	2509.0
57.5°	1810.2
60°	1096.4
62.5°	657.4
65°	426.6
67.5°	310.4
70°	234.9
72.5°	177.6
75°	138.6
77.5°	113.7
80°	96.3
82.5°	84.6
85°	77.2
87.5°	73.1
90°	69.7
92.5°	71.4
95°	72.2
97.5°	73.1
100°	74.7
102.5°	78.8
105°	80.5
107.5°	83.9
110°	96.3

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	124.5
115°	164.4
117.5°	173.5
120°	145.2
122.5°	122.0
125°	103.8
127.5°	87.2
130°	73.8
132.5°	63.0
135°	55.6
137.5°	52.3
140°	51.5
142.5°	53.1
145°	55.6
147.5°	60.6
150°	66.4
152.5°	70.6
155°	72.2
157.5°	70.6
160°	66.4
162.5°	60.6
165°	53.1
167.5°	47.3
170°	43.2
172.5°	40.6
175°	39.0
177.5°	39.0
180°	39.0

(END OF REPORT)