

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: P709469

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

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709469
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_L15_347V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH CLEAR SHADE
LIGHT LEVEL - 15,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

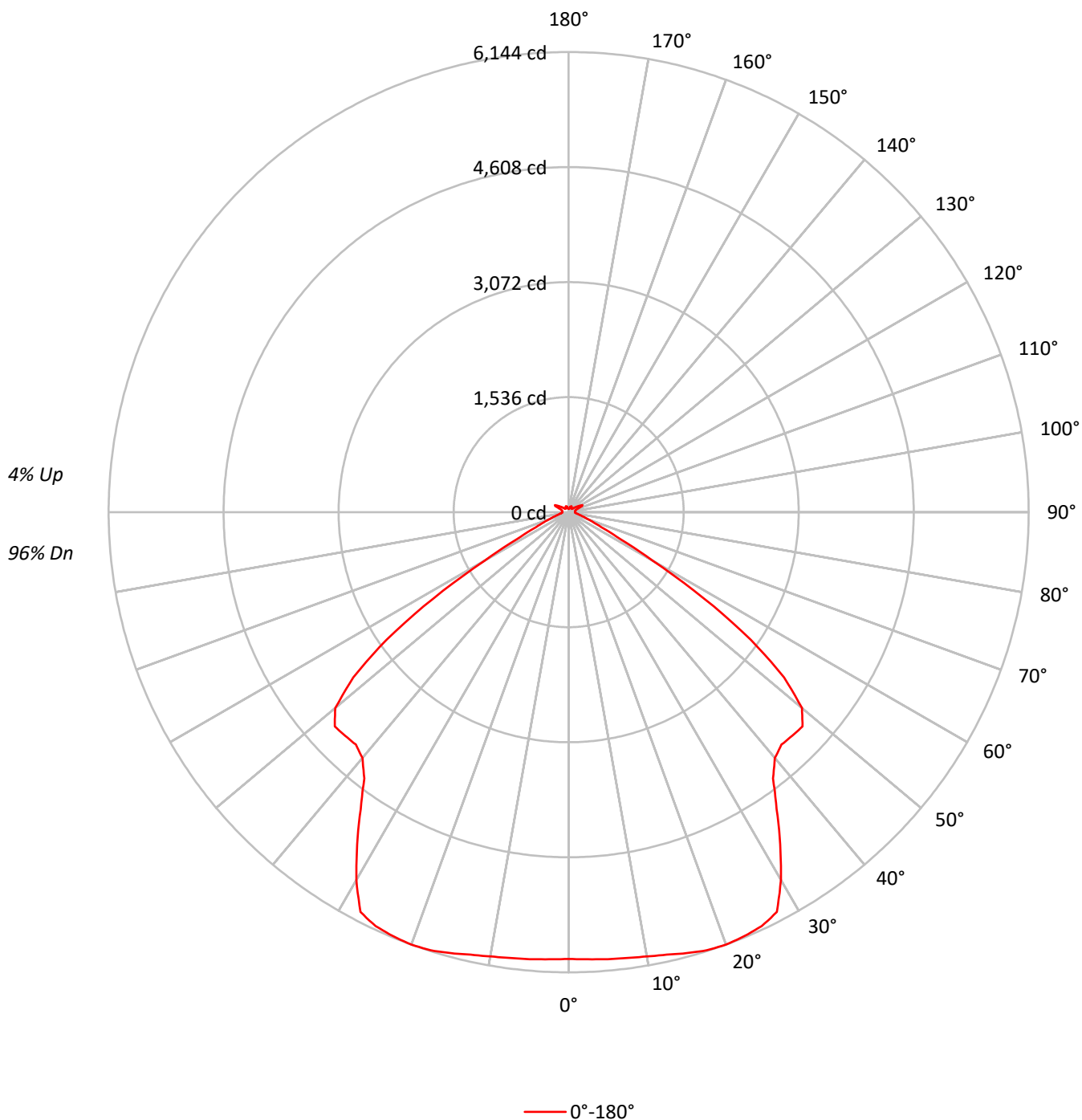
Lumens per Lamp: N/A
Luminaire Lumens: 15466.3 lumens
Efficiency: N/A
Efficacy: 162.0 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.41
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 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					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°	44581
5°	41397
10°	38971
15°	37361
20°	36023
25°	34524
30°	31258
35°	26205
40°	22942
45°	22539
50°	21818
55°	16135
60°	7195
65°	2880
70°	1646
75°	1018
80°	749
85°	643

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 22650 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.7	3.7
10°-20°	1728.6	11.2
20°-30°	2789.8	18.0
30°-40°	3053.8	19.7
40°-50°	3259.4	21.1
50°-60°	2537.1	16.4
60°-70°	599.2	3.9
70°-80°	185.8	1.2
80°-90°	102.6	0.7
90°-100°	93.3	0.6
100°-110°	102.8	0.7
110°-120°	170.8	1.1
120°-130°	112.9	0.7
130°-140°	53.8	0.3
140°-150°	42.2	0.3
150°-160°	38.3	0.2
160°-170°	18.5	0.1
170°-180°	4.6	0.0
0°-30°	5091.1	32.9
0°-40°	8144.9	52.7
0°-60°	13941.4	90.1
0°-90°	14829.1	95.9
90°-120°	366.9	2.4
90°-150°	575.8	3.7
90°-180°	637.0	4.1
0°-180°	15466.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5965	
5°	5991	573
15°	6096	1729
25°	6099	2790
35°	4842	3054
45°	4221	3259
55°	2970	2537
65°	505	599
75°	164	186
85°	91	79
90°	82	46
95°	86	70
105°	95	103
115°	194	171
125°	123	113
135°	66	54
145°	66	42
155°	86	38
165°	63	19
175°	46	5
180°	46	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5965.1
2.5°	5975.9
5°	5990.7
7.5°	6004.4
10°	6022.1
12.5°	6051.6
15°	6095.8
17.5°	6133.1
20°	6143.9
22.5°	6127.2
25°	6098.7
27.5°	6019.1
30°	5670.3
32.5°	5257.7
35°	4842.0
37.5°	4481.4
40°	4284.0
42.5°	4208.3
45°	4221.1
47.5°	4235.8
50°	4066.8
52.5°	3624.7
55°	2970.3
57.5°	2143.0
60°	1298.0
62.5°	778.2
65°	505.0
67.5°	367.5
70°	278.1
72.5°	210.3
75°	164.1
77.5°	134.6
80°	114.0
82.5°	100.2
85°	91.4
87.5°	86.5
90°	82.5
92.5°	84.5
95°	85.5
97.5°	86.5
100°	88.4
102.5°	93.3
105°	95.3
107.5°	99.2
110°	114.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	147.4
115°	194.5
117.5°	205.4
120°	171.9
122.5°	144.4
125°	122.8
127.5°	103.2
130°	87.4
132.5°	74.7
135°	65.8
137.5°	61.9
140°	60.9
142.5°	62.9
145°	65.8
147.5°	71.7
150°	78.6
152.5°	83.5
155°	85.5
157.5°	83.5
160°	78.6
162.5°	71.7
165°	62.9
167.5°	56.0
170°	51.1
172.5°	48.1
175°	46.2
177.5°	46.2
180°	46.2

(END OF REPORT)