

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: P701295

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-WHTE(4000K_L12_120V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P701295
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: Prenalux
Catalog Number: PRLX-UHBS-1218-MV-L84050-WHTE(4000K_L12_120V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH WHITE SHADE
LIGHT LEVEL - 12,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

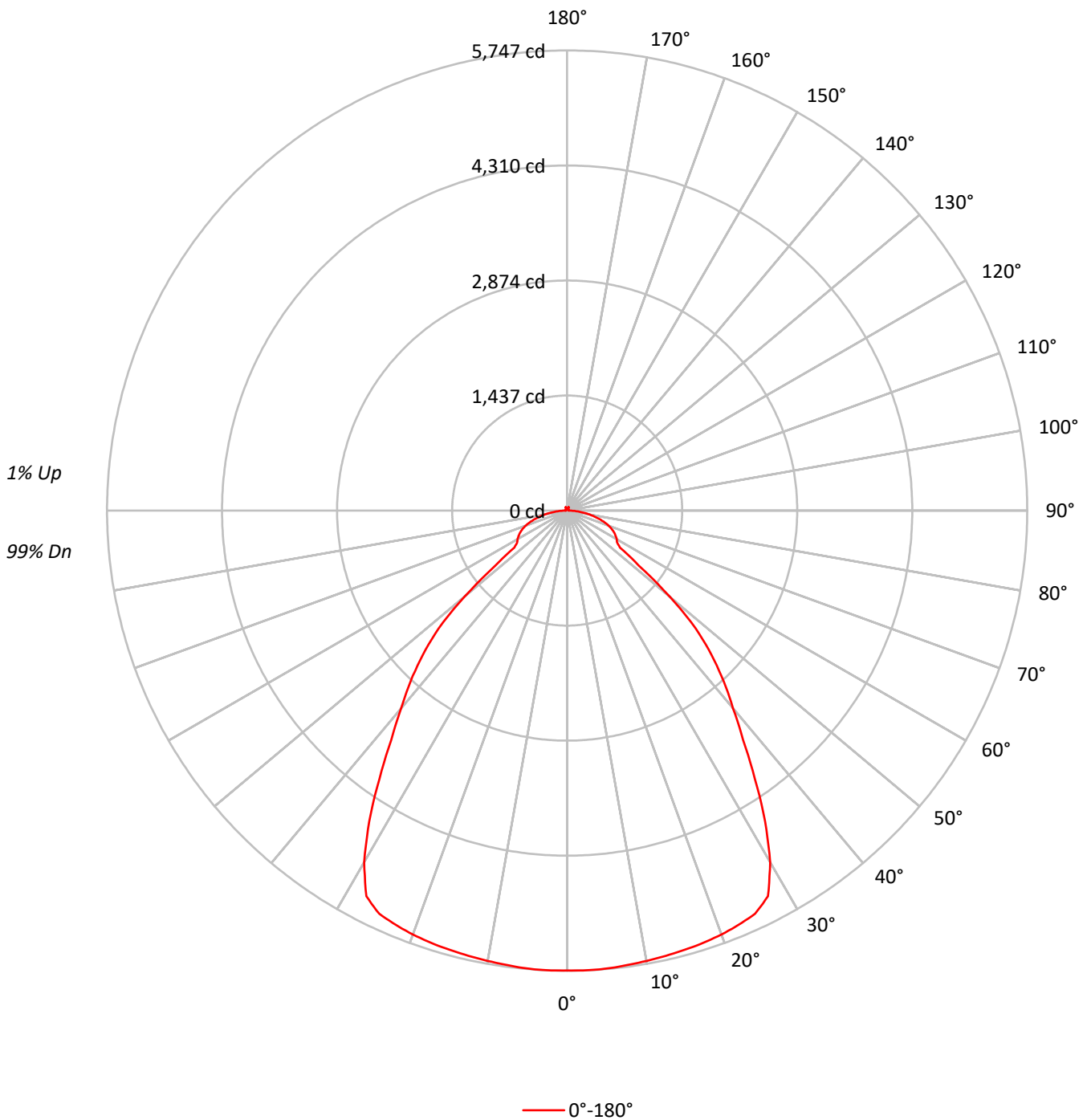
Lumens per Lamp: N/A
Luminaire Lumens: 11421.0 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.19
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 80.3
Input Voltage (V): 120
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	0
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°	42933
5°	39673
10°	36957
15°	34804
20°	33038
25°	31448
30°	27954
35°	22129
40°	17269
45°	13640
50°	8970
55°	4371
60°	3960
65°	3693
70°	3263
75°	2627
80°	1865
85°	1028

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13640 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.0	4.8
10°-20°	1608.1	14.1
20°-30°	2532.3	22.2
30°-40°	2559.8	22.4
40°-50°	1935.5	16.9
50°-60°	859.2	7.5
60°-70°	636.3	5.6
70°-80°	444.8	3.9
80°-90°	160.6	1.4
90°-100°	17.8	0.2
100°-110°	17.9	0.2
110°-120°	17.3	0.2
120°-130°	17.2	0.2
130°-140°	18.9	0.2
140°-150°	19.9	0.2
150°-160°	19.3	0.2
160°-170°	7.8	0.1
170°-180°	1.5	0.0
0°-30°	4687.3	41.0
0°-40°	7247.2	63.5
0°-60°	10041.9	87.9
0°-90°	11283.6	98.8
90°-120°	53.0	0.5
90°-150°	109.0	1.0
90°-180°	137.0	1.2
0°-180°	11421.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5745	
5°	5741	547
15°	5679	1608
25°	5555	2532
35°	4089	2560
45°	2554	1936
55°	805	859
65°	648	636
75°	424	445
85°	146	147
90°	17	17
95°	16	13
105°	17	18
115°	18	17
125°	19	17
135°	24	19
145°	31	20
155°	43	19
165°	22	8
175°	15	1
180°	15	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5744.6
2.5°	5747.2
5°	5741.3
7.5°	5726.9
10°	5710.8
12.5°	5695.6
15°	5678.7
17.5°	5660.1
20°	5634.8
22.5°	5599.3
25°	5555.3
27.5°	5431.0
30°	5070.9
32.5°	4601.8
35°	4088.7
37.5°	3609.4
40°	3224.8
42.5°	2896.0
45°	2554.5
47.5°	2180.0
50°	1672.0
52.5°	1128.5
55°	804.7
57.5°	738.8
60°	714.3
62.5°	683.8
65°	647.5
67.5°	604.4
70°	551.1
72.5°	490.3
75°	423.5
77.5°	354.2
80°	284.0
82.5°	214.7
85°	146.2
87.5°	78.6
90°	16.9
92.5°	15.2
95°	16.1
97.5°	16.9
100°	16.9
102.5°	16.9
105°	16.9
107.5°	16.9
110°	16.9

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	16.9
115°	17.8
117.5°	17.8
120°	17.8
122.5°	18.6
125°	18.6
127.5°	20.3
130°	21.1
132.5°	22.8
135°	24.5
137.5°	26.2
140°	27.9
142.5°	29.6
145°	31.3
147.5°	33.8
150°	37.2
152.5°	40.6
155°	43.1
157.5°	44.0
160°	41.4
162.5°	36.3
165°	22.0
167.5°	16.1
170°	16.1
172.5°	15.2
175°	15.2
177.5°	15.2
180°	15.2

(END OF REPORT)