

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: P709474

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

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709474
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_L12_347V)
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

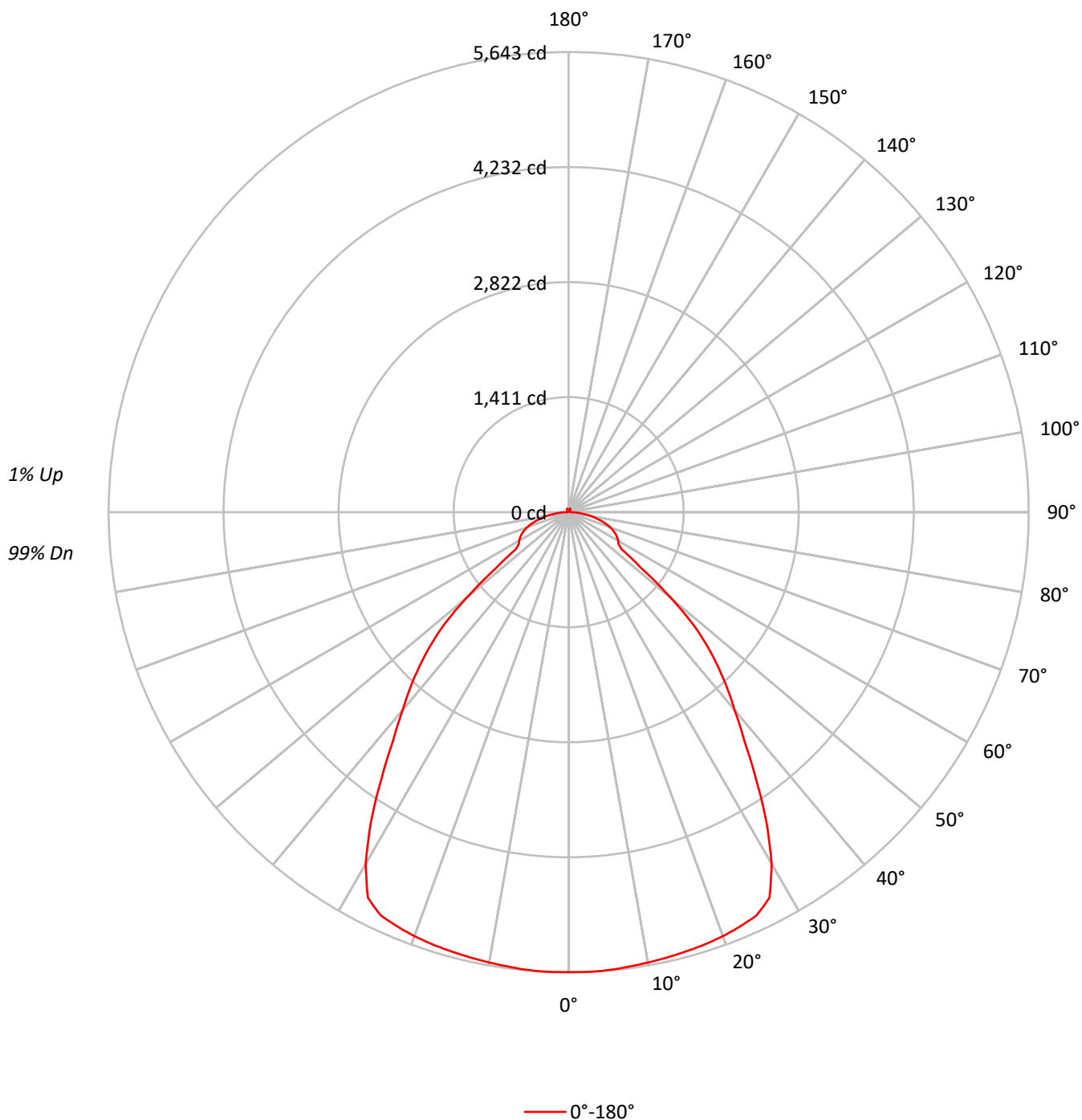
Lumens per Lamp: N/A
Luminaire Lumens: 11214.1 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.19
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P709474

CATALOG NUMBER: PRLX-UHBS-1218-MV-L84050-WHTE(4000K_L12_347V)

Luminous Intensity Polar Plot



TEST NUMBER: P709474

CATALOG NUMBER: PRLX-UHBS-1218-MV-L84050-WHTE(4000K_L12_347V)

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
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°	42155
5°	38954
10°	36287
15°	34174
20°	32440
25°	30878
30°	27448
35°	21727
40°	16957
45°	13393
50°	8808
55°	4292
60°	3888
65°	3627
70°	3204
75°	2579
80°	1831
85°	1010

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13393 cd/sqm

TEST NUMBER: P709474

CATALOG NUMBER: PRLX-UHBS-1218-MV-L84050-WHTE(4000K_L12_347V)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.1	4.8
10°-20°	1579.0	14.1
20°-30°	2486.4	22.2
30°-40°	2513.4	22.4
40°-50°	1900.4	16.9
50°-60°	843.7	7.5
60°-70°	624.8	5.6
70°-80°	436.7	3.9
80°-90°	157.7	1.4
90°-100°	17.4	0.2
100°-110°	17.6	0.2
110°-120°	17.0	0.2
120°-130°	16.9	0.2
130°-140°	18.6	0.2
140°-150°	19.5	0.2
150°-160°	18.9	0.2
160°-170°	7.6	0.1
170°-180°	1.4	0.0
0°-30°	4602.4	41.0
0°-40°	7115.8	63.5
0°-60°	9859.9	87.9
0°-90°	11079.1	98.8
90°-120°	52.0	0.5
90°-150°	107.0	1.0
90°-180°	135.0	1.2
0°-180°	11214.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5640	
5°	5637	537
15°	5576	1579
25°	5455	2486
35°	4015	2513
45°	2508	1900
55°	790	844
65°	636	625
75°	416	437
85°	144	145
90°	17	17
95°	16	13
105°	17	18
115°	18	17
125°	18	17
135°	24	19
145°	31	20
155°	42	19
165°	22	8
175°	15	1
180°	15	

TEST NUMBER: P709474

CATALOG NUMBER: PRLX-UHBS-1218-MV-L84050-WHTE(4000K_L12_347V)

CANDELA DISTRIBUTION (FULL):

0°	
0°	5640.5
2.5°	5643.0
5°	5637.2
7.5°	5623.1
10°	5607.3
12.5°	5592.4
15°	5575.8
17.5°	5557.5
20°	5532.7
22.5°	5497.8
25°	5454.6
27.5°	5332.6
30°	4979.0
32.5°	4518.4
35°	4014.6
37.5°	3544.0
40°	3166.4
42.5°	2843.5
45°	2508.2
47.5°	2140.5
50°	1641.7
52.5°	1108.0
55°	790.1
57.5°	725.4
60°	701.4
62.5°	671.4
65°	635.8
67.5°	593.4
70°	541.1
72.5°	481.4
75°	415.8
77.5°	347.8
80°	278.9
82.5°	210.8
85°	143.6
87.5°	77.2
90°	16.6
92.5°	14.9
95°	15.8
97.5°	16.6
100°	16.6
102.5°	16.6
105°	16.6
107.5°	16.6
110°	16.6

TEST NUMBER: P709474

CATALOG NUMBER: PRLX-UHBS-1218-MV-L84050-WHTE(4000K_L12_347V)

CANDELA DISTRIBUTION (continued):

	0°
112.5°	16.6
115°	17.5
117.5°	17.5
120°	17.5
122.5°	18.3
125°	18.3
127.5°	19.9
130°	20.7
132.5°	22.4
135°	24.1
137.5°	25.7
140°	27.4
142.5°	29.1
145°	30.7
147.5°	33.2
150°	36.5
152.5°	39.9
155°	42.3
157.5°	43.2
160°	40.6
162.5°	35.6
165°	21.6
167.5°	15.8
170°	15.8
172.5°	14.9
175°	14.9
177.5°	14.9
180°	14.9

(END OF REPORT)