

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: P709456

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-CLER(5000K_L12_277V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709456
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: Prenalux
Catalog Number: PRLX-UHBS-1218-MV-L84050-CLER(5000K_L12_277V)
Description: PRENATALUX HIGH BAY LUMINAIRE WITH CLEAR SHADE
LIGHT LEVEL - 12,0000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

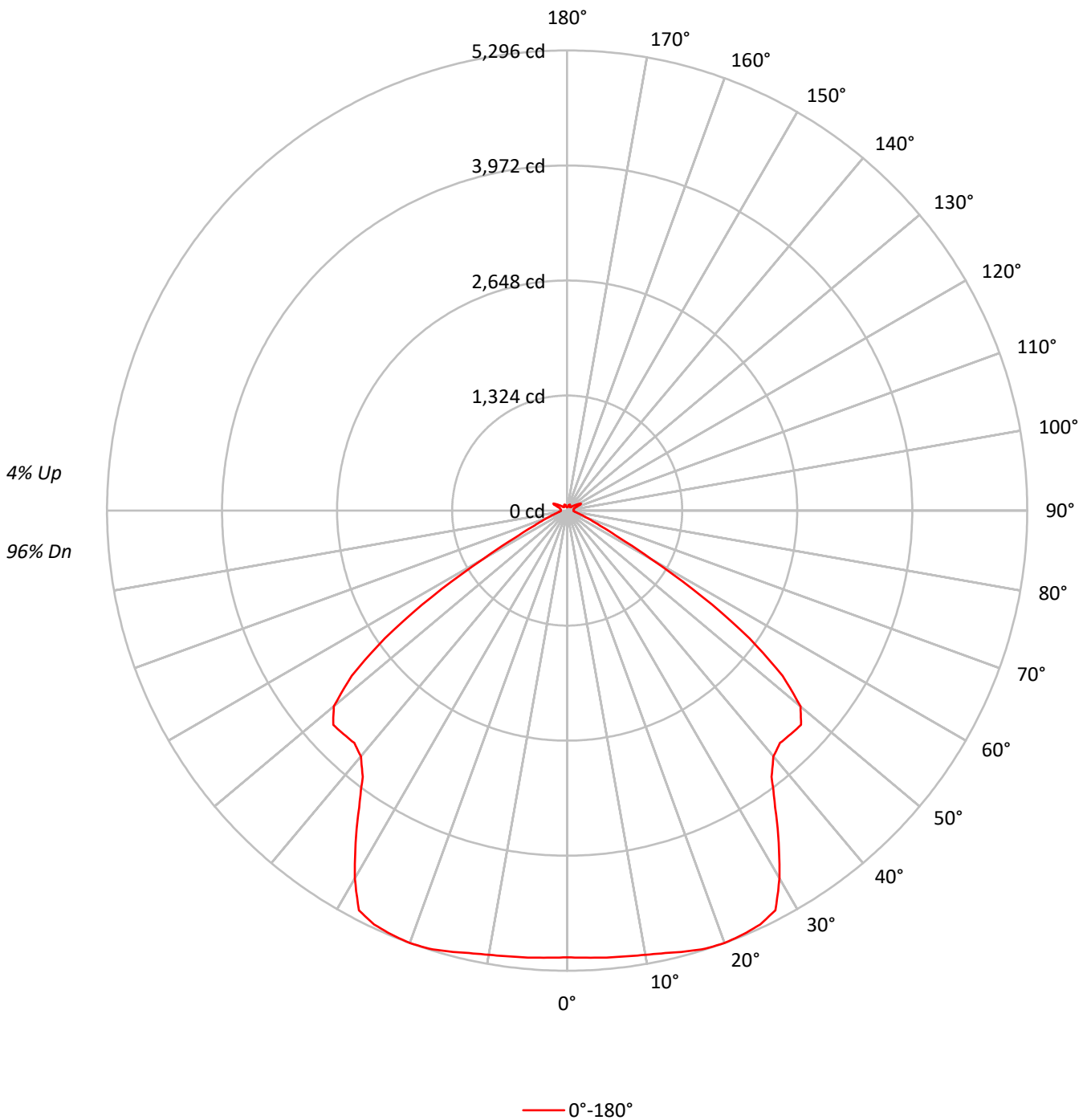
Lumens per Lamp: N/A
Luminaire Lumens: 13330.9 lumens
Efficiency: N/A
Efficacy: 168.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.41
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 79.3
Input Voltage (V): 277
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: P709456

CATALOG NUMBER: PRLX-UHBS-1218-MV-L84050-CLER(5000K_L12_277V)

Luminous Intensity Polar Plot





TEST NUMBER: P709456

CATALOG NUMBER: PRLX-UHBS-1218-MV-L84050-CLER(5000K_L12_277V)

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	38427
5°	35681
10°	33590
15°	32202
20°	31050
25°	29758
30°	26943
35°	22587
40°	19774
45°	19427
50°	18806
55°	13907
60°	6202
65°	2483
70°	1419
75°	878
80°	645
85°	554

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 19523 cd/sqm

TEST NUMBER: P709456

CATALOG NUMBER: PRLX-UHBS-1218-MV-L84050-CLER(5000K_L12_277V)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.7	3.7
10°-20°	1489.9	11.2
20°-30°	2404.6	18.0
30°-40°	2632.2	19.7
40°-50°	2809.4	21.1
50°-60°	2186.8	16.4
60°-70°	516.4	3.9
70°-80°	160.2	1.2
80°-90°	88.5	0.7
90°-100°	80.4	0.6
100°-110°	88.6	0.7
110°-120°	147.2	1.1
120°-130°	97.3	0.7
130°-140°	46.4	0.3
140°-150°	36.4	0.3
150°-160°	33.0	0.2
160°-170°	16.0	0.1
170°-180°	3.9	0.0
0°-30°	4388.2	32.9
0°-40°	7020.4	52.7
0°-60°	12016.6	90.1
0°-90°	12781.7	95.9
90°-120°	316.2	2.4
90°-150°	496.3	3.7
90°-180°	549.0	4.1
0°-180°	13330.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5142	
5°	5164	494
15°	5254	1490
25°	5257	2405
35°	4174	2632
45°	3638	2809
55°	2560	2187
65°	435	516
75°	142	160
85°	79	68
90°	71	40
95°	74	61
105°	82	89
115°	168	147
125°	106	97
135°	57	46
145°	57	36
155°	74	33
165°	54	16
175°	40	4
180°	40	

TEST NUMBER: P709456

CATALOG NUMBER: PRLX-UHBS-1218-MV-L84050-CLER(5000K_L12_277V)

CANDELA DISTRIBUTION (FULL):

0°	
0°	5141.6
2.5°	5150.9
5°	5163.6
7.5°	5175.4
10°	5190.6
12.5°	5216.0
15°	5254.1
17.5°	5286.3
20°	5295.7
22.5°	5281.3
25°	5256.7
27.5°	5188.1
30°	4887.5
32.5°	4531.8
35°	4173.5
37.5°	3862.8
40°	3692.5
42.5°	3627.3
45°	3638.3
47.5°	3651.0
50°	3505.3
52.5°	3124.2
55°	2560.2
57.5°	1847.1
60°	1118.8
62.5°	670.7
65°	435.3
67.5°	316.7
70°	239.7
72.5°	181.3
75°	141.5
77.5°	116.0
80°	98.2
82.5°	86.4
85°	78.8
87.5°	74.5
90°	71.2
92.5°	72.9
95°	73.6
97.5°	74.5
100°	76.2
102.5°	80.5
105°	82.1
107.5°	85.5
110°	98.2

TEST NUMBER: P709456

CATALOG NUMBER: PRLX-UHBS-1218-MV-L84050-CLER(5000K_L12_277V)

CANDELA DISTRIBUTION (continued):

	0°
112.5°	127.1
115°	167.7
117.5°	177.0
120°	148.2
122.5°	124.5
125°	105.8
127.5°	88.9
130°	75.4
132.5°	64.4
135°	56.8
137.5°	53.3
140°	52.5
142.5°	54.2
145°	56.8
147.5°	61.8
150°	67.7
152.5°	72.0
155°	73.6
157.5°	72.0
160°	67.7
162.5°	61.8
165°	54.2
167.5°	48.3
170°	44.0
172.5°	41.5
175°	39.8
177.5°	39.8
180°	39.8

(END OF REPORT)